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Agricultural Research Service

**ARS-98** 

December 1992

# Opus: An Integrated Simulation Model for Transport of Nonpoint-Source Pollutants at the Field Scale

Volume II, User Manual



Ferreira, V.A., and R.E. Smith. 1992. Opus, An Integrated Simulation Model for Transport of Nonpoint-Source Pollutants at the Field Scale: Volume II, User Manual. U.S. Department of Agriculture, Agricultural Research Service, ARS-98, 200 pp.

The Opus model simulates interaction of water movement with the application, transformation, and movement of nonpoint-source pollutants in an agricultural field. The modeled processes include hydrology, erosion, weather, crop growth, agricultural management, nutrient cycling and transport, and pesticide fate. The field size is limited to catchments with a single raingage record and a single soil profile. Time scales vary by process and conditions: from fractions of a second in some hydrologic components to years in annual management cycles. Many processes proceed on a daily time step. This document describes the use of the computer program. Input variables and parameters are described, and relationships among some are explained. Tables and figures assist the user in applying the program to a wide range of possible climates and managements.

No warranties, expresed or implied, are made that the computer programs described in this publication are free from errors or are consistent with any standard of programming language, or that the programs will meet a user's requirement for any particular application. The U.S. Department of Agriculture disclaims all liability for direct or consequential damages resulting from the use of the techniques or programs documented herein.

While supplies last, single copies of this publication may be obtained, at no cost, on request from Dr. R.E. Smith, USDA-ARS, Water Management Research Unit, AERC CSU, Fort Collins, CO 80523.

Copies of this publication may also be purchased from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

#### **ACKNOWLEDGMENTS**

Opus evolved from an effort to improve the CREAMS model (USDA 1980). The contributions of the CREAMS2 team, including several USDA Soil Conservation Service scientists, in the early development stage are gratefully acknowledged. Much of the technology in Opus is based on the work of others. Special appreciation is due to the following persons:

Their early contributions of model subcomponent code, useful data, or teamwork are gratefully acknowledged.

Preliminary model application by Walter Niccoli (Department of Agricultural Engineering, CSU) and Thomas Econopouly (formerly With USDA-ARS, Tucson, AZ) expanded the conditions under which Opus functions well. Development of the plant-parameter table by Robert Flynn (Department of Agronomy, CSU) required a massive literature search and hundreds of Opus simulations, and his efforts are appreciated. The assistance of Fernando Pons (Department of Civil Engineering, CSU) in program modifications, testing, and input-file improvements is gratefully acknowledged.

Peer reviews of this manuscript were performed by Reza Savabi (Purdue University, West Lafayette, IN), Bob Havis (USDA-ARS, Ft. Collins, CO), and Charles Hebson (Robert G. Gerber, Inc., Freeport, ME). Their suggestions added to the clarity and completeness of this document. We greatly appreciate their efforts and suggestions.

Finally, the support of USDA-ARS is heartily appreciated. Few employers would risk supporting such a long-term, labor-intensive project. The professional freedom in ARS allowed creativity and thoroughness.



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#### PREFACE

Documentation of the Opus model is in two volumes: Volume I, Documentation; and Volume II, User Manual. The theoretical and mathematical concepts used are described in volume I. Operation of the computer program is described in volume II.

Opus is designed to be "physically based." Ferreira and Smith (1988) discussed some of the pitfalls of such a claim, which must be kept in mind when applying models. As yet, such complex physical and chemical processes and their interactions cannot be precisely described mathematically, much less simulated by computers. Further imprecision is caused by uncertainties of input and by spatial and temporal variabilities of many assumed "constants." Thus, model results must be carefully analyzed within this context.

Despite its admitted shortcomings and weaknesses, Opus is a relatively powerful tool for assessment and research. Its surface and subsurface hydrology components represent a significant step beyond most currently available models. Compared with other models, Opus' components include a more complete system and represent a generally better balance of relative complexity. Opus has been run thousands of times on climates ranging from very dry to very wet, and on time scales from a single storm to 99 years. Thus many program "bugs" have been discovered and eliminated. As with any computer program, however, it must be assumed that bugs exist; caution is advised.

The Opus program is designed to be used transparently; the original code is neither easily read nor safely modifiable. However, experience with CREAMS and early versions of Opus indicates that some users will wish to read and may attempt to modify the code. Appendixes are therefore provided that include basic code information: a glossary of input and COMMON variables, a list of subprograms and their functions, and a map of COMMON block residence. This information is offered not to encourage code changes but to minimize damage therefrom. Users are discouraged from any modification of Opus code.



OPUS, AN INTEGRATED SIMULATION MODEL FOR TRANSPORT OF NONPOINT-SOURCE POLLUTANTS AT THE FIELD SCALE: VOLUME II, USER MANUAL

Virginia A. Ferreira and Roger E. Smith

#### INTRODUCTION

Opus (not an acronym) is a computer simulation model of the water flow and transport system in and on an upland catchment. It is agriculturally focused, and its primary purpose is to estimate the relative effects of different management practices on non-point-source pollution from field-sized areas. Within this capability, the model can also be used for a number of other hydrology related studies. Volume I, which precedes this document, contains the theoretical basis and description of the mathematical models that are integrated in Opus. This volume is designed to assist the user in computer program operation.

Like other comprehensive hydrologic models published for public use, Opus represents a particular balance between current scientific understanding of natural processes and practical constraints, especially the limits of typically available user data. Opus attempts to use modern soil physics in the movement of soil water, and attempts to closely integrate many processes that relate to hydrology and interact with each other. These include plant growth, nutrient cycling, management activities, sediment transport along the surface, and transport of chemicals through the soil.

Opus is limited to small field areas (on the order of a few hectares) by several constraints, including representation of the soil with a single profile, the use of point rainfall and weather input, and the relative simplicity of its surface flow network. It is not intended for use where two or more different crops are grown on different parts of the catchment, for example, because that would require more complex spatial simulation of plant growth and hydrology. The model can, however, simulate cases where different crops are grown sequentially, including the case

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where one crop is planted between the rows of another crop not yet harvested.

Wherever possible, as discussed in this volume, default values or tables of suggested parameter values are given to allow the use of the model in the absence of measured data. This includes the difficult-to-measure soil hydraulic parameters and a range of typical parameters for the crop growth model. Input data can be totally in either English or metric units, and the output can also be in either unit system. The computer program operates internally in the metric system.

There are a variety of options for the user to choose, depending both on the detail and type of available weather data and on the user's modeling objective. The various options are summarized in the section immediately following, and then the necessary input file preparation is presented in detail. Following that, some examples are shown to help explain various features.

Opus operates on a range of process time scales, as illustrated in figure 1. The simulation for comparing long-term effects may span many years. For agricultural applications, the longest time scale unit is the rotation period, within which there is a fixed pattern of changing crops and management actions. A shorter important time scale is the annual weather cycle. The various methods of including weather data into Opus are discussed in volume I, and their implementation is outlined below. Within the annual cycle is the daily cycle, which is the time step with which weather information, crop growth, management decisions, and daily rainfall occurrences are treated. Soil water redistribution and evapotranspiration are simulated in internally chosen time subdivisions and are updated on a daily basis.

When rainfall intensity pattern data (here referred to as break-point data) are available, there is a finer scale for simulating the time and spatially dynamic process of surface runoff. For this case, Opus simulates hydrographs and sediment production patterns within each runoff-producing storm.

As the hydrologic processes are simulated, the model can simultaneously simulate several other optional, interactive processes. These include erosion and sediment transport, and the application and transport of pesticides and fertilizers. Opus can also simulate the various transformations in the soil organic system, including residue decay and the carbon, nitrogen, and phosphorus cycles. Other optional processes that Opus can simulate include irrigation additions of water, draintile water table controls, and small farm ponds. Selection and implementation of the various options are discussed below.

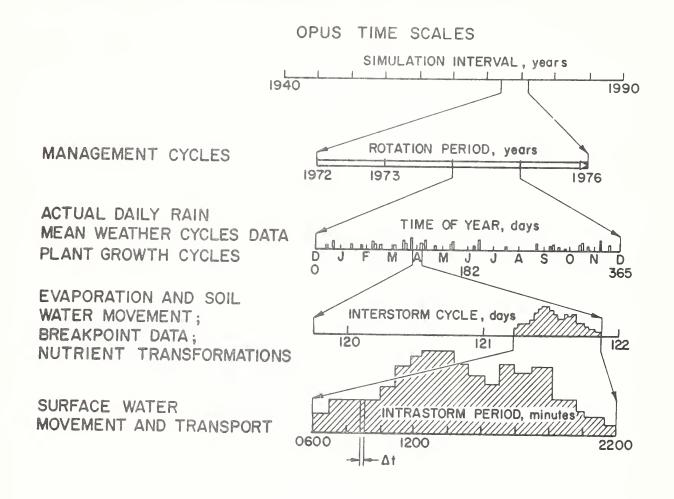


Figure 1. Scheme of the various time scales in Opus.

The general simulation process is diagrammed in figure 2. Here, general processes are shown as units, which in the program may be made up of many subunits or modules. There are several input and output files, referred to below, but not all are necessary for any option. This document is intended as a guide for use of the program, rather than a description of the computer program itself. For those interested in the code, the last three appendixes are included as documentation aids: Appendix E is a glossary of the major code names used in the FORTRAN code, appendix F is a list of the code subprograms and their calls and file locations, and appendix G is a table of COMMON block usage and locations within the various files making up the total code.

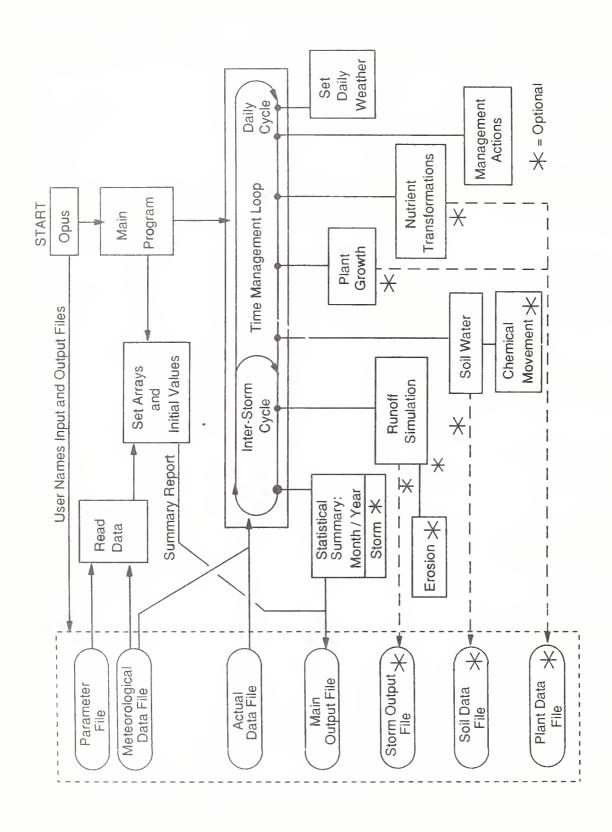


Figure 2. Logical flow diagram of major sections of Opus model.

OPUS OPTIONS: OVERVIEW

For any simulation, the Opus model requires a specification or simulation of the weather and rainfall pattern and also a basic description of the surface and soil features. In any application the model will simulate runoff and soil water inputs and redistribution. Beyond that, there are a large variety of options that the user must choose, with some constraints, and these are outlined below.

# Hydrology Options

The most basic option is that of the detail of surface hydrology. In theory, this should be guided by the modeling objective, but in practice, it is often dictated by the available data. When rainfall records either are not available for the local field or are available only in the form of daily rainfall, Opus provides a spatially "lumped" conceptual model to estimate daily runoff and peak runoff rate from daily rainfall. As described in volume I, this methodology is taken with some extensions from the EPIC model (Williams et al. 1984). The features of the two major hydrology options are summarized in table 1.

Table 1. Hydrology options in Opus

Hydrology option (IHOP)	Rain data	Runoff calculation	Peak runoff	Erosion methodology
1	Daily <sup>1</sup>	SCS CN	Estimated from runoff volume	MUSLE
2	Break- point	Infiltration model	From generated hydrograph	Unsteady, spatially distributed

<sup>&</sup>lt;sup>1</sup>Daily rain option includes rainfall-generating capability if daily data are not available.

Breakpoint Hydrology. When data on rainfall rate distribution are available, Opus can simulate runoff amount and distribution

with a more physical basis, including time and spatial distribution of runoff and erosion rates. Figure 3 illustrates schematically a typical trace of accumulated depth of rainfall versus time, for a continuously recording raingage. The interpretation of this graph locates points at each observed break in slope. The resulting record of rain rate and time pairs is called a breakpoint record. This common term is herein used to refer to all rainfall intensity data, even if obtained from a digital, tipping bucket or other similar type of gage.

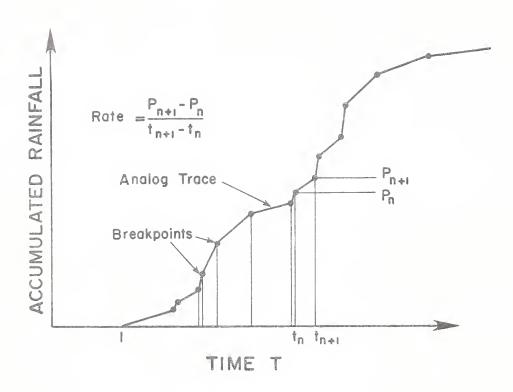


Figure 3. Definition drawing of interpretation of a trace of accumulated rainfall versus time. Change in slope is change in rain rate, and points of slope change are termed "breakpoints."

Daily Hydrology Options. Within the daily hydrology option, there are several options depending on data availability. These are shown diagrammatically in figure 1 of volume I. In the absence of recorded data, a stochastic weather generation model and its necessary parameters are included. In principle, weather parameters can be developed for any place with weather records of sufficient length. Parameter maps and tables given in appendix D allow the generation of stochastically reasonable sequences of rainfall for any place within the map limits (continental United

States), for use where local data are not available. If actual runoff and erosion data are available, their use can obviate modelling of runoff and erosion, thus reducing the uncertainty for dependent processes.

For either generated or measured daily rainfall data, the user can choose to use either the Curve Number estimate of daily runoff or a stochastic variation of it (see vol. I, ch. 5).

# Sediment Transport Methodology

The sediment transport option is closely linked with the hydrology option. For the daily hydrology option, an appropriate lumped estimate of sediment production is used (MUSLE, Williams 1975). This method utilizes the estimated volume and peak rate of runoff to estimate a daily amount of sediment loss. In the daily option, most of the physical details of the catchment (such as slope patterns and flow lengths) are used only indirectly in the estimation of peak runoff rates and USLE slope-length factors. For the breakpoint hydrology option, erosion and sediment transport are treated simultaneously with the routing of surface water, in a spatially and temporally distributed manner. All topographic information is therefore utilized in the simulation. This option includes the simulation of deposition in any pond that may be part of the catchment topography.

# Agricultural Chemical Options

Two major chemical process options may be selected by the user. These are nutrient simulation (soil residue, nutrient cycling, and nutrient movement) and pesticide fate (addition, decay, and movement of agricultural pesticides).

Nutrient Cycling and Transport. The nutrient/soil plant residue model includes carbon, nitrogen, and phosphorus cycling in soil and residue, plus soil water transport of soluble nutrients in the root zone and nutrient additions to runoff (Parton et al. 1988). For this option, the user should specify initial soil organic composition as well as any nutrients added as fertilizers.

Pesticide Application and Transport. The pesticide model allows simulation of the fate of as many as ten different applied pesticides. Application may be aerial (distributed between plant and soil surfaces), directed on, or injected into the soil. Pesticide decay coefficients and soil adsorption ratios need to be specified, and the user may choose to simulate equilibrium adsorption or kinetic adsorption dynamics. Radionuclides may be treated similarly as an additional option.

Other Management Options

Agricultural management actions, other than the application of chemicals mentioned above, are important on agricultural catchments primarily for the changes they make in the hydrology of the catchment. This then indirectly affects all water-related processes that are important to pollution potentials.

Tillage Operations. Tillage operations include those that plant and harvest crops as well as those that only disturb and reshape the soil surface. These operations are significant in the hydrology not only by altering surface roughness and surface soil properties, but also by redirecting the flow of runoff water through the production of furrows and by mixing surface soil and residue into the profile. The user, with guidance from tables contained herein, can specify the properties of the soil surface and the extent of mixing resulting from a wide variety of tillage operations.

Terraces. A more radical management action in terms of surface hydrology is the formation of terraces and the creation of a second-order terrace outlet channel. This is accommodated in the breakpoint hydrology option of Opus, provided the terraces are of reasonably uniform size and spacing. Specification of terrace systems is discussed in the section on data preparation below.

Grass Buffer Strips. The user of Opus may also specify the existence of grassed channels or buffer strips that are not subject to either erosion or management changes and that are often used for erosion control. This management operation is effectively simulated only with the breakpoint hydrology option where runoff spatial variation is simulated.

Irrigation. The Opus user can simulate either furrow or sprinkler irrigation, can simulate the addition of fertilizers or pesticides with irrigation water, and can specify individual irrigations or irrigation when the soil becomes drier than a certain limit.

<u>Draintiles</u>. Opus can simulate the groundwater control actions of perforated drain tubes at a specified spacing and depth.

Farm Ponds. The trapping and storage actions of small ponds at the outlet of a catchment can be simulated in an approximate manner by Opus. For the breakpoint hydrology option, this simulation is based on the geometry of the pond and the hydraulics of the outlet. In the daily hydrology method, the treatment of ponds is limited to changes in the lumped parameters representing management effects on sediment production.

# Weather Data Options

In addition to the daily rainfall options outlined in the daily hydrology model above, there are other options for supporting meteorological data that are linked in some cases to the available rainfall data.

Statistical Generated Data. The WGEN stochastic model for daily rainfall includes parameters for the generation of correlated values of daily maximum and minimum temperatures and daily incoming solar radiation (Richardson and Wright 1984). The parameter maps for the generating model are reproduced in appendix D of this volume.

If the user has monthly weather summaries (temperatures and radiation means) that are more particular to the location of interest, the model can use that information to modify the generated sequence to match the monthly mean values of actual records.

The user can choose to generate a smoothly changing sequence of daily temperature and radiation data, with each day representing the long-term record average, or that smooth series can be stochastically varied to make a more realistic record. The resulting record is still correlated with the rainfall record.

<u>Use of Actual Runoff and Weather Records</u>. Another option in Opus allows the user to enter and use actual daily observations of maximum and minimum daily temperatures and radiation, plus (if available) recorded runoff amounts, peak rates, or daily sediment production. The hydrologic records allowed are only daily values for the daily hydrology option. This option allows a user to focus the simulation on dependent processes, such as soil water transport or crop growth. This can reduce the hydrologic uncertainty in the case where there are experimental records.

# Other Options

<u>Input/Output Units</u>. The user may input data in either English units or metric units. The subsequent input data description in

this volume gives appropriate units for each option. The units cannot be mixed. Similarly, the user may select either system of units for the output from the program.

Output Options. Opus provides the user with a range of output options, based on time scale of interest as well as the object of the simulation. Up to four different output files are possible: one basic and three optional. The basic output contains some input summary information, monthly and annual hydrologic balance summaries, and any run warnings or user notices generated by the model's reaction to the input data. This output file may optionally include storm or daily summaries on all days with rainfall.

The first optional output file contains detailed surface hydrology data, useful principally with the breakpoint hydrology option. For this option, the file contains hydrograph distributions of rain rate, runoff rate, and sediment concentrations throughout the storm. This output file is chosen by specifying a threshold value of rainfall, below which smaller storms are not reported. The second optional output file contains reports of soil water and solute distributions at a user-specified interval (days), plus an annual summary of pesticide fate, by month. The interval report includes pesticide and nutrient concentrations for each soil computational interval within the root zone. The solutes may be optionally reported in either mass per unit area or concentration by weight of soil. The third output file may contain a summary of plant status for as many as four different plants used in a rotation, or it may contain summary data by month of soil nutrient and residue pools.

The optional major processes and output files are chosen at the beginning of a simulation run by an interactive selection process.

#### DATA PREPARATION FOR OPUS

#### General Information

The data input to Opus is organized into functional or topical groups. Data are normally read from two files; one contains meteorological information, and the other contains parameters describing the field and management. A third input file may be used to provide real measured data, to obviate certain hydrologic simulations (e.g., daily temperatures, runoff volume and peak, and erosion amounts). A section below entitled "Running Opus" describes the file selection and information needed for system commands. Opus is furnished for use on an IBM-compatible personal computer, and some modifications may be required to run it as a batch program on a mainframe computer.

Opus parameters and meteorological statistics are input in the form of template files, samples of which are provided with the program. Henceforth the term "line" is used to indicate a single input record. Each input data line is preceded by a prompt line containing the variable names, which we refer to as a template. Data must be entered in the field beneath their name, right justified (ending in the column where the name ends). Except where otherwise noted, parameter values are limited to seven digits (including the decimal point), and line formats are most often constructed to allow seven characters per parameter. Parameter names follow the standard FORTRAN convention: Integer names begin with I-N, and floating point variables begin with A-H and O-Z. Integer variables cannot contain decimal points in the parameter file.

The sample template files provided with the program contain a set of necessary input data lines, including several examples of "repeats": When the number of input lines varies (e.g., descriptions of a variable number of pesticides, or numerous nutrient application dates), both the data line and its prompt or template line must be duplicated. Entire blocks of data may need to be repeated (e.g., there must be a complete management data set for each rotation year).

Input parameter and meteorological statistics data lines are identified in columns 78-80 with a letter corresponding to the data type and a two-digit number for the line number within the data type. The identifying letters must be capitalized, and the numbers must contain two digits (include a leading zero for one-digit numbers), e.g., A03. These identifiers must remain in columns 78-80 after the data line is filled with data by the user. This is necessary to provide checking of data as they are read. Precipitation data and the file of real data input are an exception to this rule.

Comparisons with CREAMS Data Files. Some Opus input files resemble CREAMS input in function and content. This similarity was maintained to ease the transition for users of CREAMS who may wish to use Opus. GLEAMS input strongly resembles that of CREAMS, its precursor. In addition to the obvious change to template format, several other differences exist, as summarized in table 2. Meteorology files contain initial identification or title data, which are echoed to all output files. The daily precipitation data are much like those in CREAMS except that in Opus they include the year on the first data line of each year. This allows the user to change start dates without modifying the rainfall input file. Because the precipitation input in Opus is very similar to that in the CREAMS format, it is easily converted from the CREAMS format to the Opus format (conversion programs are provided in appendix A). Appendix A contains FORTRAN code and run instructions for programs to convert CREAMS rain data to Opus format, before appending them to a meteorology template file.

Table 2.
Input differences between CREAMS and Opus

Feature	CREAMS	0pus
Rain files: Title record Units Daily data- year identified	None English No	l required English or metric Required on first record of each data year <sup>1</sup>
Breakpoint data	Julian	Julian or calendar
Depth-time line (breakpoint data)	<pre>1 pair per record   FORMAT(2f8.0)</pre>	5 pairs per record FORMAT (10f8.0) <sup>1</sup>
"Measured" data file	None possible	Read if available
Parameter files	1 file for each of 3 programs	<pre>1 file for all runs; CREAMS parameter files not directly convertible to Opus format.</pre>

<sup>1</sup>See app. A for conversion assistance.

#### Parameter Data File

The parameter file contains the data necessary to define the problem for simulation. Input data are grouped by general types as listed in table 3. The data input for Opus are identified in the description below using these groups and line numbers within that group. As explained below, some lines, for consistency, are required to be part of a set even if not used by the options chosen.

Table 3.
Opus input data organization

Record group ID	Data type	Input file			
A	ID and run controls	Parameter file			
В	General state/initial conditions	Parameter file			
С	Soil horizons	Parameter file			
D	Crops	Parameter file			
E	Management	Parameter file			
F	Topology	Parameter file			
G	Erosion/sediment	Parameter file			
H	Climate/weather statistics	Meteorology file			
I	Precipitation	Meteorology file			
J	Measured data, obviates simulation of process	Actual data file			

The flag INUN in the parameter file identifies the input data as either metric or English units. The input data must consistently be in the defined units throughout all input files. The rare exceptions are noted in variable descriptions.

In order to keep data sets of a generally standard configuration, several of the parameter data lines are read but not used when a particular option is not chosen. These lines must always be included in the data file, but they may be left blank when the option is not chosen. This standardization is intended to (a) allow the user to include or exclude an option without needing to make extensive additions and deletions in a data set, and (b) make data set checking more reliable.

The input parameters are summarized in appendix B, a table that contains line-by-line parameter descriptions, required units (English or metric), and default values (if used). The various data groups and their variables are described in detail in the following section "Opus Parameter File," including tables of suggested parameter values for various conditions.

# Meteorology Data File

The meteorology file contains statistical parameters and data describing the watershed's climate. Depending on the options chosen, the file may also contain (a) daily rainfall records for years to be simulated, (b) statistical parameters for generating daily rainfall, (c) monthly record statistics for generating daily temperature and/or radiation, or (d) breakpoint rainfall records for the period to be simulated.

The meteorology data file consists of a template section containing weather statistics, and an optional rainfall data section. Most of the weather statistics are necessary for all simulations, to determine daily air temperatures and radiation values used in the models for crop growth, evapotranspiration, and soil processes. Tables and maps of necessary statistics for many locations in the United States are provided in appendix D.

The required rainfall input depends on the hydrologic option chosen and the type of rainfall data available to the user. Hydrology option 1, using SCS Curve Number runoff methodology, requires information on daily total rainfall. This may be input for the simulation period or may be generated within Opus from the statistical information in the meteorology template section. The user's objectives determine the necessity of daily input data, including daily temperatures and radiation. For validation simulations (comparing model results to observed data), supplying all available real data is rewarded by minimized model errors. However, for long simulations (50-100 years, for example), generated meteorological data require very little input and produce very reasonable results.

Hydrology option 2 uses infiltration-based runoff methodology and requires the user to input stormwise breakpoint information. Breakpoint data consist of cumulative time-depth pairs at points of rate change on the rainfall record. The space scales of Opus necessitate input data with a time scale of about a few minutes to produce reasonable runoff estimates with the infiltration model. The "Opus Meteorology File" section describes meteorological input in detail.

## Actual Data File

The actual data file is optional. It contains any or all of the following daily data: measured runoff, peak flow, storm erosivity index (EI), total storm sediment delivery, recorded daily maximum and minimum temperatures, and daily solar radiation. If an actual data file is called for, Opus assumes that it contains at least daily maximum and minimum temperatures. The user may input daily values of these meteorologic and hydrologic variables to obviate simulation of particular processes. The section entitled "Actual Data File" describes the measured data file in detail.

#### OPUS PARAMETER FILE

This section describes the input parameters in some detail, including suggested ranges of values and subjective guidance when possible. A better understanding of their function can be obtained by reference to volume I. Appendix B is a tabular summary of the Opus parameter input data. Table 4 lists the formats with which parameter file data lines are read. Appendix C contains a sample parameter template file.

Table 4. Parameter file formats

Line	Format	Line	Format
A01	(a80)	E09	(i7,8f7.0)
A02-A04	(1017)	E10 E11	(i7) (i7)
B01-B02	(10f7.0)	E12	(i3,i4,i7,5f7.0)
B03	(5i7)	E13 E14	(i7) (i3,i4,i7,3f7.0,i7,2f3
C01	(i7)	E15	(i7)
C02-C03	(10f7.0)	E16 E17	(i3,i4,217,5f7.0) (i7,i3,i4,i7,5f7.0)
D01	(217)		
D02 D03-D04	(a3,a4,i7,8f7.0) (10F7.0)	F01-F02 F03-F04 F05	,
E01	(f7.0)	F06	(10f7.0)
E02	(i7)	F07	(3i7,7f7.0)
E03	(a3,a4,2i7,5f7.0)	F08	(10i7)
E04	(i7)	F09-F10	(10f7.0)
E05	(a3,a4,9f7.0)	F11	(i7,9f7.0)
E06	(10f7.0)		
E07	(10f7.0)	G01	(i7)
E08	(i7)	G02-G04	(10f7.0)

Each input data line must contain an identifying code (e.g., E06) in columns 78-80. Opus reads and checks these codes, writes an error message on the standard output file, and stops if the expected code is not read in. The error message indicates both the expected and read codes. Error messages are most likely to occur when simulations deviate from the sample template run in the number of input lines, e.g., if more pesticide transports are simulated than were in the sample run. Such runs require the user to duplicate portions of the template; the user should

always include both header lines and input data lines. If input is done incorrectly, the program reading will immediately be out of synchronization; for instance, the program reading will show data lines when the user is expecting headers. Prior experience indicates that if the program does not check and stop, such errors result in either obscure system messages and a system-aborted run or erroneous results.

The following describes parameters by input line within each data group (as summarized in appendix B).

Group A. Title, Run Controls, and Options Flags

Input group A identifies the simulation and determines which input, output, and simulation options are to be used.

A01: TITLE(J)

Three lines of identifying information (A01) are read. These data are written to output files so that the user can identify all output from particular runs. Opus does not interpret the title information; it just reads and writes it. It is useful to fill these lines with information distinguishing the run from other runs (e.g., which parameters have been changed and the values used, such as "CURVE NUMBER = 76" or "No-nutrient run") to avoid confusion when analyzing several output files.

A02: IBDATE, IEDATE, IFWRDA, INTSP, ICON, THRESH, IRYR

The A02 line contains simulation-period information and a management-governing parameter.

Date of simulation start [mmddyy]. Initial conditions described on B02-B03 refer to this date. Therefore, when changing IBDATE, users should also modify IRYR and initial conditions (group-B parameters) as appropriate. Simulation start may be any time within the period of rainfall data provided, but it is usually more practical to start before crop planting or before perennial plants become active.

Date of simulation end [mmddyy]. If breakpoint rainfall is read, storm rainfall (or a dummy event) must be included in meteorology file for at least 1 day past end of simulation. Opus reads ahead to determine when to calculate end-of-day statistics, because of the possibility of multiple storms in a day, or a storm that occurs soon after.

IFWRDA Flag controlling output to terminal or log file during simulation.

IFWRDA=0 No screen output.

IFWRDA=1 Date [yyddd] is written to screen as

day's information is processed. For

day's information is processed. For long batch run simulations, this option will create unnecessary massive batch output files.

INTSP Time increment of output to soil-layer file [days]. (See "Opus Output Options" section for complete description of output files.)

INTSP=0 No soil-layer information output.

INTSP=1 Output daily.

INTSP=31 Output each month (of whatever size).

INTSP=365 Output annually.

INTSP=n Output every n days, where n is any integer except 31 or 365.

ICON Flag switching soil-layer output from mass to concentration for all chemical variables. Used only if INTSP>0.

ICON=0 Output in units of mass/unit surface area.

ICON=1 Output in units of concentration.

THRESH Storm file threshold for stormwise output. Depth of rainfall below which output is <u>not</u> wanted [mm or in]. In English units, for example, 0.01 inches would probably yield output for all storms (depending on precision of rain data input), whereas 2.0 or 3.0 in would cause output for only large storms.

IRYR Rotation year to be used for first year of simulation, from the ordered listing in management scheduling list (E11-E18). IRYR must of course be \le NYROT (E10).

A03: INUN, IOU, IHOP, IPAN, IFOUT, IFRAN, IFRNCN, ITOCH, IFREAL

INUN Flag indicating units system of all input data. Appropriate units for the two systems, for each data item, are listed in appendix B and are also noted in the following text in description of each variable. Note that one cannot switch between systems within a simulation.

INUN=1 Metric units on all input data.

INUN=2 English units on all input data.

IOU Analogous to INUN, but refers to values on all output files.

IHOP Flag to indicate which hydrology option is used.

IHOP=1 Daily rainfall (either real or generated) with curve number runoff methodology.

IHOP=2 Breakpoint rainfall with infiltration-based runoff methodology.

IPAN Flag indicating use of pan evaporation data instead of solar radiation input. This flag controls the interpretation of line H12 data.

IPAN=0 Meteorological simulation is to be based on monthly input data of incident solar radiation.

IPAN=1 Meteorological simulation is to be based on monthly mean values of daily pan evaporation and a pan coefficient (COEFF on line H13).

IFOUT Flag specifying output option to be written on standard (mandatory) output file. IFOUT is used to specify type of information written. Output options are discussed in detail in the section "Opus Output Options."

IFOUT=0 Only monthly and annually summarized output are to be written. (Refer to fig. 24 for illustration of this standard output file.)

IFOUT=1 Results are to be written after each storm, in addition to monthly and annual summaries. (Refer to fig. 25 for illustration of standard output file with stormwise results written.)

IFRAN Controls the randomization of daily temperature and radiation values. With or without this option, the program generates a gradually changing sequence of average daily temperature and radiation data, representing average long-term daily values for each day.

IFRAN=0 Mean meteorological data are used for each year of simulation, making every year an average year, in effect. Deviations from smooth curve are based on

wet/dry occurrences.

IFRAN=1 Daily temperature and radiation values are randomly varied about their means (including logical correlations with each other and with rainfall).

IFRNCN Controls randomization of runoff values predicted by Curve Number method (see vol. I, ch. 5); applies only to daily hydrology option (IHOP=1).

IFRNCN=0 No randomization.
IFRNCN=1 Curve number predictions randomized.

IFREAL Flag used to signal presence of any recorded daily data that are to be used in place of simulated data for one of the daily options. These data include any or all of the following: runoff, peak flow, sediment production, erosivity index (EI) for storm (day), maximum and minimum daily temperatures, and daily incoming solar radiation.

IFREAL=0 No measured data available to obviate simulation.

IFREAL=1 Measured data provided; a third input file must be assigned.

A04: IFSED, IFNUT, IFPEST, IFIRR, IFPOND, IFDRAN, IVARK, IFT, IFGEN

IFSED Flag to indicate simulation of sediment transport within and from the field.

IFSED=0 Simulation of erosion and sediment transport is to be bypassed.

IFSED=1 Sediment option is to be included. Should be used when simulating transport of pesticides or nutrients because of interactions.

Flag to indicate simulation of nutrient processes, including simulation of nutrient additions, transformations, and transport in water. For accurate prediction of surface water nutrient deliveries, IFSED should be 1 when IFNUT is 1 or 2.

IFNUT=0 Simulation of nutrient processes is bypassed.

IFNUT=1 Nitrogen additions, movement, and transformation processes are simulated.

IFNUT=2 Both nitrogen and phosphorus processes are simulated.

IFPEST Flag to indicate simulation of pesticide or radionuclide processes:

IFPEST=0 No pesticide or radionuclide processes are simulated.

IFPEST=2 Radionuclide processes are simulated.

Chemical characteristics of radionuclides can be treated much like those of pesticides, but some differences are recognized in the model. Radionuclides can be adsorbed on inorganic matter.

They are subject to decay and adsorption phenomena as are pesticides, although radionuclide decay is not affected by temperature and water content as is pesticide decay.

IFIRR Flag to indicate if irrigation is to be simulated:

IFIRR=0 No irrigation is to be simulated.

IFIRR=1 Sprinkler irrigation is to be simulated.

IFIRR=2 Furrow irrigation is to be performed according to need, using demand-controlled supply.

IFIRR=3 Furrow irrigation is to be performed according to a fixed schedule, e.g., using a ditch supply.

IFPOND Flag indicating the farm pond or impoundment into which field runoff flows and the geometric model of the pond to be applied:

IFPOND=0 No pond present.

IFPOND=1 Pond is present and described by a three-parameter relation of depth to surface area (see line F11).

IFPOND=2 Pond is present and its geometry is found from slopes of channel, lateral contributing planes, and slope of dam face.

IFDRAN Flag indicating simulation of tile drainage:

IFDRAN=0 No tile drainage present.
IFDRAN=1 Tile drains are present.

IVARK Flag indicating that data on stepwise changes in USLE K are described on F05-F06:

IVARK=0 USLE K assumed to be constant along field.

IVARK=1 Pairs of distance and K values to be read.

IFT Indicates whether data on actual recorded mean monthly weather variables are to be read and used to control mean generated monthly values. Included are maximum and minimum temperatures and radiation values.

IFT=0 No average monthly weather data to be read.

IFT=1 Monthly recorded mean values of daily maximum and minimum temperatures are to be read.

IFT=2 Like IFT=1, but monthly recorded mean values of daily radiation or pan evaporation are to be read also.

IFGEN Indicates whether daily rainfall data are to be read from meteorology file or generated by Opus. IFGEN applies only if IHOP=1 and is ignored when IHOP=2.

IFGEN=0 Daily rainfall data for simulation period are to be read from meteorology file.

IFGEN=1 Daily rainfall data are to be generated from climate statistics in meteorology file.

## Group B. General State and Initial Condition Parameters

Group B inputs define the general state and initial condition of the field. When changing the simulation start date (IBDATE, line A02), it may be necessary to modify some of the group-B parameters accordingly. Initial moisture status, surface roughness, and current crop are among the important initial conditions, and these may change with starting date.

B01: DA, DWTB, GLAT, CN2, PHRN, CONRN, DASL, ALBS, FWIND

DA Total field area [ha or acre (henceforth abbreviated ac)].

DWTB Depth to the uppermost permanent water table [m or ft]. If tile drains are used, this parameter is the mean depth to the tile drain inverts.

GLAT Latitude of field location. Positive latitudes are in Northern Hemisphere; negative latitudes refer to Southern Hemisphere [degrees and fraction of degrees; e.g., 32°30" is entered as 32.5].

CN2 SCS AMC Class II curve number. May be zero or blank for breakpoint runs. Table 5 lists curve numbers for various field conditions.

PHRN Rainfall pH. A reasonable value is 5.6. (The July 1992 version of Opus does not use this parameter.)

CONRN Typical or annual mean concentration of N in natural rainwater [mg/L or ppm]. A typical value is 0.8.

DASL

Surface-soil depth that can be considered to effectively interact with the surface-runoff water in the exchange of chemicals among soil-solution, soil-adsorbed, and runoff-solution phases. This parameter is important in the calculation of washoff of pesticide and nutrient material. A useful estimated range of values is 3-10 mm. It should be a function of tillage depth and/or random roughness, and should not be larger than 10 mm [mm or in].

ALBS Albedo of the field's bare dry soil (expressed as a decimal fraction). Albedo is defined as the fraction of incident solar radiation that is reflected by the ground. Albedo varies with soil color. Ranges for various soils are

Light sand 0.25-0.45 Clay or gray 0.25-0.35 Dark clay 0.14-0.20 Dark soil 0.05-0.15

FWIND Parameter used in calculation of potential evapotranspiration (ET). It reflects the combined effects of wind and humidity on ET. Default value is 0.28. This parameter exists primarily for use in ET investigations; otherwise the default should be used.

Table 5. Runoff curve numbers for hydrologic soil-cover complexes, assuming antecedent moisture condition II and  $\rm I_a=0.25^1$ 

Land use	Treatment or practice	Hydrologic condition		Hydrol soil o		D
Fallow	Straight row Strt.row + conserv.till. Strt.row + conserv.till.	Poor <sup>2</sup> Poor <sup>3</sup>	77 75 74	86 84 83	91 89 87	94 92 90
Row crops	Straight row Straight row Strt.row + conserv.till. Strt.row + conserv.till.	Poor Good Poor <sup>2</sup> Good <sup>3</sup>	72 67 71 64	81 78 79 75	88 85 86 82	91 89 89 85
	Contoured Contoured + conserv.till. Contoured + conserv.till.		70 65 69 61	79 <b>7</b> 5 78 70	84 82 83 76	89 86 87 79
Small grains	Straight row Straight row Strt.row + conserv.till. Strt.row + conserv.till.	Poor Good Poor <sup>2</sup> Good <sup>3</sup>	65 63 64 60	76 75 74 72	84 83 82 80	88 87 86 84
	Contoured Contoured + conserv.till. Contoured + conserv.till.	-	63 61 62 60	74 73 73 72	82 81 81 79	85 84 84 82
	Contoured + terraces Contoured + terraces Cntrd. + ter. + con.till. Cntrd. + ter. + con.till.		61 59 60 58	72 70 71 69	79 78 78 76	82 81 81 79
Close-seeded legumes <sup>4</sup> or rotation meadow	Straight row Straight row Contoured Contoured Contoured + terraces Contoured + terraces	Poor Good Poor Good Poor Good	66 58 64 55 63	77 72 75 69 73 67	85 81 83 78 80 76	89 85 85 83 83

Table 5--Continued. Runoff curve numbers for hydrologic soil-cover complexes, assuming antecedent moisture condition II and  $\rm I_a=0.25^1$ 

	Treatment or	Hydrologic	Hydrologic soil group				
Land use	practice	condition	A	В	C	D	
Pasture		Poor	68	79	86	89	
or range		Fair	49	69	79	84	
		Good	39	61	74	80	
	Contoured	Poor	47	67	81	88	
	Contoured	Fair	25	59	75	83	
	Contoured	Good	6	35	70	79	
Meadow		Good	30	58	71	78	
Woods		Poor	45	66	77	83	
		Fair	36	60	73	79	
		Good	25	55	70	77	
Farmsteads			59	74	82	86	
Roads <sup>5</sup>	Dirt		72	82	87	89	
	Hard surface		74	84	90	92	

<sup>&</sup>lt;sup>1</sup>Adapted from Rawls and Richardson (1983).

 $<sup>^2\</sup>mathrm{Residue}$  cover is less than 20% of surface (less than 750 lb/acre for row crops or 300 lb/acre for small grain).

<sup>3</sup>Residue cover is more than 20% of surface; normal range is 20%-40%.

<sup>&</sup>lt;sup>4</sup>Close-drilled or broadcast.

<sup>&</sup>lt;sup>5</sup>Including right-of-way.

BO2: SRESD, STDRY, THST, ROWSP, DPFR, RGSURF, ZSF, DTILL

SRESD Amount of plant residue on soil surface at beginning date of simulation [kg/ha or lb/ac].

Amount of dead plant dry matter standing above soil at beginning of simulation. This material can drop and become surface residue, and is to be distinguished from permanent stalks or trunks and tree branches of perennial plants (which are described as COVI, below) [kg/ha or lb/ac].

THST Mean initial soil water content of surface soil horizon, by bulk volume [mm/mm or in/in]. This must be within limits THS(1) and THR(1) [ $\theta_r$ ] (see data form CO2). THR(1) is calculated from other soil data, and THST is adjusted to be above THR(1) if necessary.

ROWSP Mean row spacing of furrows, if any, on the field at start of simulation [m or ft].

DPFR Depth of furrows, if any, at start of simulation [cm or in]. If zero, the program logic assumes that the topography of untilled, natural contours (see group-F data below) applies initially.

RGSURF Random roughness height of soil surface at start of simulation [mm or in]. This parameter refers to roughness on the scale of that produced by tillage (see variable RFT on line E03). Typical values of this parameter are given in the tillage-operations data (see E section, below, and table 9).

ZSF Initial side slope of field furrows, as a ratio of horizontal to vertical dimensions. If left blank, a value of 1.5 is assumed.

DTILL Maximum depth of tillage or the depth to a plowpan, if any [cm or in]. This value overrides the maximum value of PLOWD for the rotation (read below, line E03). If positive, this value is used as an erosion-depth limit.

B03: NC, ICR(I)

Line B03 contains information on crops that are growing or dormant at the beginning of the simulation. These include perennials or dormant winter crops planted the previous fall. If NC>0, care must be used when changing the simulation start date

(IBDATE on line A02). The crops specified to be active at the start of simulation should be consistent with those planted before the start based on the rotation year (IRYR, line A02).

NC Number of crops (plant species) "active" at simulation start. Maximum is four.

ICR(IRYR,I)(I=1 to NC) List the crops present at start of simulation, given as one-digit numbers indicating the crop's rank in the sequential crops list (D data lines). For example, if two crops are present, the first and fourth in the D-section input, this line is as follows:

NC ICR ICR 2 1 4

## Group C. Soil Horizon Data

The set of lines for soil horizon data specifies the differentiated soil horizons in the typical root zone, and specifies the necessary soil physical and chemical parameters for each horizon. Table 6 contains reasonable values for some of these parameters for general soil texture classes.

CO1: NSL Number of horizons, up to six. NSL sets of lines CO2-CO3 are read for each horizon.

CO2: GZH(L), POR(L), PSAND(L), PSILT(L), PCLAY(L), RC(L), B15(L), PBUB(L), ALAM(L), THS(L)

- GZH(L) Depth to bottom of horizon L [mm or in]. First horizon must be at least 20 mm deep.
- POR(L) Natural porosity of untilled soil L, by volume; usually within range of 0.30-0.55 [mm/mm or in/in].
- PSAND(L) Proportion of sand-sized particles in the soil.

Note: The parameter PSILT(L) is redundant insofar as it is obtainable by difference from values of PSAND(L) and PCLAY(L), and thus it may be blank or in error without effect.

- PSILT(L) Proportion of silt-sized particles in the soil.
- PCLAY(L) Proportion of clay-sized particles in soil L.

  This value is used in various chemical transport and adsorption functions. Unless IFPEST and IFNUT are both zero, a value of PLCAY must be given for all soils, even though value of PSILT is omitted.

Table 6. Estimated soil hydraulic parameter means and ranges by USDA texture class  $^{\rm l}$ 

							PBUB1	JB <sup>1</sup>	ALAM	M
USDA texture class	Porosity s (mm/mm)	PSAND	PSILT	PCLAY	RC¹ (mm/hr)	B15 <sup>1</sup> Arith (mm/mm) (mm)	Arith	Geom (mm)	Arith	Geom
Sand	0.437	06.0	0.05	0.05	210	0.033	159.8	72.6	0.694	0.592
Loamy sand	0.347-0.300	0.84	60.0	0.08	61	0.055	205.8	86.9	0.553	0.474
Sandy loam	0.388-0.308	09.0	0.25	0.15	56	0.095	302.0	146.6	0.378	0.322
Loam	0.331-0.333	0.45	0.35	0.20	13	0.117	401.2	111.5	0.252	0.220
Silt loam	0.3/5-0.551	0.20	09.0	0.20	8.9	0.133	508.7	207.6	0.234	0.211
Sandy clay loam	0.420-0.582 oam 0.398	0.55	0.20	0.25	4.3	0.148	594.1	280.8	0.319	0.250
Clay loam	0.332-0.464	0.35	0.30	0.35	2.3	0.197	564.3	258.9	0.242	0.194
Silty clay loam	0.409-0.519 oam 0.471	0.15	0.50	0.35	1.5	0.208	703.3	325.6	0.177	0.151
Sandy clay	0.410-0.524	0.50	0.10	0.40	1.2	0.239	794.8	291.7	0.223	0.168
Silty clay	0.3/0-0.490	0.10	0.45	0.45	6.0	0.250	765.4	341.9	0.150	0.127
Clay	0.475	0.20	0.30	0.50	9.0	0.272	856.0	373.0	373.0 0.165	0.131

<sup>1</sup>RC, B15, PBUB, and ALAM values after Rawls et al. (1982). The columns under PBUB and ALAM are the sample arithmetic and geometric means for these parameters. <sup>2</sup>Ranges found in raw porosity data are given underneath the means.

The parameters RC(L), B15(L), PBUB(L), ALAM(L), and THS(L) describe the hydraulic properties of the soil--specifically, the relations between water content, capillary suction, and hydraulic conductivity. The functional relations or soil retention and hydraulic conductivity are described in volume I, chapter 2. The relations are a modification of those of Brooks and Corey (1964). The shape of the function is illustrated in figure 4. Some of the necessary information is available for many soils but is not necessarily published in terms of the parameters of the function used here. A related popular retention relationship is that of Van Genuchten (1980). The parameter n of Van Genuchten is related to ALAM ( $\lambda$ ) as  $\lambda$  = 1-n, and the parameter  $\alpha$  of Van Genuchten is 1/PBUB (except that  $\alpha$  is usually in units of cm<sup>-1</sup> rather than mm<sup>-1</sup>).

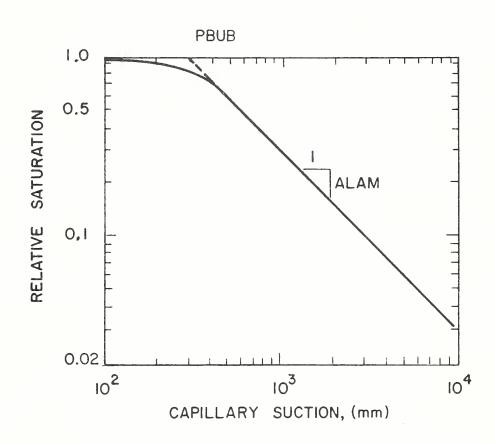


Figure 4. Capillary water retention curve showing graphical meaning of the parameters PBUB and ALAM.

These soil hydralulic parameters may be estimated by the user from texture-class information compiled by Rawls et al. (1982) (included here in table 6). Table 6 shows the general trends in magnitude of these parameters as related to soil texture (with some exceptions). As texture varies from clay to loam to sand, the parameters tend to change as follows:

- (a) RC increases;
- (b) ALAM increases;
- (c) PBUB decreases;
- (d) B15 decreases;
- (e) Porosity (POR) will change with other factors, such as organic matter and degree of aggregation.

An alternative method (default option) for estimating these parameters is included in Opus: If a negative value is read for any of these, that parameter is estimated by regression functions dependent on sand, silt, and clay contents and on porosity. This optional methodology was developed by Rawls et al. (1982). Such regressions are very generalized and should not be relied on if data that are specific to the location are available. This default option cannot be used if the sand fraction is less than 0.05 or greater than 0.70, or if the clay content is less than 0.05 or greater than 0.60. A more detailed discussion of these parameters and their function is found in volume I.

- RC(L) Saturated hydraulic conductivity of horizon L, in units of flux [mm/hr or in/hr]. Negative value causes default value to be calculated (see caution above). A zero-value input produces a warning message, but no default value is calculated.
- B15(L) Water content of horizon L [mm/mm or in/in] at 15 bars of matric capillary tension. This value is often measured in the course of soil testing (see Holtan et al. 1968, for example). Negative value causes a default regression value to be calculated.
- PBUB(L) Bubbling pressure or air entry pressure of the soil [mm or in]. Interpreted graphically (as shown in fig. 4), it is the intercept of the line, in logarithmic coordinates, describing the water-content/capillary-tension curve at higher tensions. It is a negative potential, physically, but for convenience the absolute value is input. Table 6 indicates that this parameter varies rather consistently with soil texture, and ranges approximately 75-900 mm. A negative input value causes the default to be calculated.

- ALAM(L) Pore size distribution index. As illustrated in figure 4, this is the slope of the asymptotic water content-matric tension curve in logarithmic coordinates. This parameter also varies with soil-texture class, and ranges from approximately 0.15 for clay loams to nearly 1.0 for uniform or very sandy soils (and greater than 1.0 for pure sands). A negative value causes the default value to be calculated.
- THS(L) Volumetric soil water content at saturation.

  Must be equal or less than porosity (POR). A

  negative input value triggers calculation of the
  default value from relationship with POR, PSAND,
  and PSILT.
- CO3: ORGC(L), SRSDU(L), WNO3(L), WPLAB(L), SPH(L), PKD(L), FEROD(L), OMN(L), OMP(L), TOTP(L)
  - ORGC(L) Initial organic carbon content of horizon L [% by weight]. If total organic matter is known, organic carbon may be estimated as (organic matter)/1.732.
  - SRSDU(L) Initial incorporated plant residue material in soil horizon L [g/t or ppm].
  - WNO3(L) Soil nitrate content of horizon L [g/t or ppm].

  - SPH(L) Soil pH in horizon L. (The July 1992 Opus version does not use this value.)
  - PKD(L) Isothermal adsorption coefficient for extractable labile phosphorus in horizon L [mL/g; no English units equivalent]. If blank or zero, this parameter is estimated by default from the clay content of the soil.
  - FEROD(L) Flag used to indicate an erosion-resistant soil for the uppermost horizons.
    - FEROD=0.0 Layer L is not erosion resistant. FEROD=1.0 Layer L is erosion resistant.
  - OMN(L) Organic N present in soil horizon L [ppm]. If negative, the model uses default value determined internally.

- OMP(L) Organic phosphorus content in soil horizon L [ppm]. If this parameter is negative, a default value is selected by the program.
- TOTP(L) Total phosphorus content of soil horizon L [kg/ha or lb/ac]. If TOTP is negative, the model uses the default value of 5 kg/ha.

## Group D. Crop Data

The set of lines for crop data describes all crops grown during the rotation cycle, in terms of physical variables that are translated into parameters for the mechanistic crop-growth model. These plant parameters describe optimal target size and yield, optimum growth-determining temperature, aging rates, and nutrient contents. Example values of these parameters for common crops are given in table 7. The values in this table were obtained by fitting and should not be taken as definitive.

DO1: NCROP Number of different crops to be grown in the simulation period, for which data will be read.

Lines D02-D04 are a set, repeated NCROP times. Each crop is assigned an identifying number (J) corresponding to the order in which it is read.

- DO2: IDCR(J), IPER(J), PLAI(J), DDEM(J), DDMX(J), PDRYM(J), POTY(J), RDP(J), PLIG(J), RLIG(J)
  - IDCR(J) Seven-character alphanumeric name for crop J.
  - - IPER=0 Annual, harvested crops.
    - IPER=1 A perennial harvested crop, such as hay.
    - IPER=2 A perennial grazed crop, such as a grass pasture.
    - IPER=3 A perennial natural (ungrazed) catchment, including all types of pristine catchments.
    - IPER=4 An annual (planted) meadow or crop that is harvested only by grazing.
  - PLAI(J) Maximum leaf-area index for crop J, based on plant projected area (not overall area). (Relative plant shaded area and parameter PPCV(J) together describe relative overall shade area.)
    PLAI is usually between 1 and 5.

Table 7. Crop parameters for various crops (English units)

CONY	0.118 0.018 0.018 0.018 0.018 0.018	0.033	0.018 0.018 0.018	0.018	0.0234	0.0234 0.0234 0.0234 0.0234	0.0234 0.0234 0.0220 0.0200 0.0200	0.0200
DEACT C	0.002	0.08	0.03	m w m m m m o o o o o o o o o o o o o o	0.08	0.28 00.28 00.32 00.32 00.32	000000000000000000000000000000000000000	0.02
CONVE	30 65 65 70 73 70 70	20	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	22 22 22 22 22 22	40	44 30 30	40 33 55 55 55 55	50
TGOP	00000000000000000000000000000000000000	93	77 77 77	77 77 77 77	78	75 75 75	77 77 77 95 95	92
TGBM	23 74 74 74 74 74	89	52 54 54	0000000 444444	40	4444	0 0 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	52
PPCV	000000000000000000000000000000000000000	0.95	0.95 0.95 0.95	0.95 0.95 0.95 0.95 0.95	06.0	0000	000000000000000000000000000000000000000	0.85
POTHT	22.7.7.00.7.7.00.15	5.0	233 233 23	877444	2.5	3.1 3.1 2.7 2.1	66666666666666666666666666666666666666	3.6
RLIG	0000000	0.10	0.10	000000000000000000000000000000000000000	0.10	0.10	000000	0.10
PLIG	00.15 00.15 00.15 00.15 00.15	0.15	0.15	00.16	0.16	0.16 0.16 0.16	00.16	0.16
RDP I	2444444	48	32 32	386	42	447 38 38 38	4448 33322 3366 366	36 38
POTY	50 5725 10640 10224 7280 12880	3050	3000 4500 2286	3600 2430 1800 3300 4500	3600	6000 5982 2900 2210	3520 2395 2327 8695 5633 7696 7696	4750 5600
PDRYM	9000 24500 14376 25000 24327 16700 27000	15250	8570 13400 7986	11000 8262 5140 11400 11400	9836 9836	16800 16701 9670 8354	11700 9075 9060 19760 14122 17490	12850 14000
DDMX	6000 2450 2450 2700 2700 1915 3000	2365	1875 2705 2705	2405 2832 2600 2238 3238	2350	2000 2000 1915 1915	2176 2176 2090 2185 2185 1875 1875	1875 2480
DDEM	230 990 588 588 588	54	58 116 116	116 116 110 121 76	86 176	197 197 116 116	128 128 120 120 120 120	102
PLAI	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	5.0	44.2	44444	4.3	44.74	0000444 000000	4.8
Crop	ALFALFA CORN CORN CORN CORN CORN CORN CORN CORN	COTTON	SOYBEAN° SOYBEAN° SOYBEAN°	SOYBEAN <sup>4</sup> SOYBEAN <sup>5</sup> SOYBEAN <sup>2</sup> SOYBEAN <sup>2</sup> SOYBEAN <sup>2</sup> SOYBEAN <sup>2</sup>	SWHEAT	WBARLEY WBARLEY SBARLEY SBARLEY	OATS OATS CSORGHUM GSORGHUM GSORGHUM GSORGHUM	GSORGHUM
HD	7/05 10/10 10/10 10/29 10/29 10/29 10/29	9/27	9/25 10/20 10/20	10/31 11/03 12/09 10/20 10/17	9/05	7/05 7/05 7/22 7/22	7/22 7/22 8/05 9/30 9/27	10/20
PD	8/30 5/15 5/15 4/30 4/20 5/15 4/15	3/28	5/19 5/28 5/28	6/01 5/23 7/20 5/28 5/17	4/21 9/20	9/22 9/22 4/21 4/21	4/11 4/11 4/25 5/21 5/20 5/27	5/23
Condition	PERENNIAL IRR SS DRY IRR DRY SS DRY SS IRR LS CORN SIL	IRR	DRY SS IRR LS DRY SS	DRY DRY DOUBLE-CROP	DRY DRY	IRR FALLOWED IRR DRY	IRR DRY DRY IRR MEDIUM DRY IRR M EARLY	DRY EARLY DRY LONG
State	NE N	AZ	MN KS KS	DE DE IN GA	ND KS	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	30

PD = plant date, HD = harvest date, SS = short season, LS = long season, DRY = dryland, IRR = irrigated. Soybean superscripts indicate maturity rating; higher numbers indicate longer growing season.

- DDEM(J)

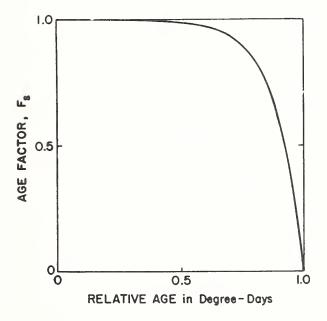
  (a) Measure of age in degree-days [°C-days or °F-days] between planting and emergence of plant J. (b) If plant is a perennial, DDEM represents the degree-day interval between beginning of year (or July 1 in Southern Hemisphere) and plant emergence. Degree-days are calculated as the temperature difference between daily mean air temperature and crop base temperature, TGBM (defined below).
- DDMX(J) Degree-day measure from planting of crop J to its maturity, when growth ceases and senescence begins [°C-days or °F-days]. Figure 5 illustrates  $F_s$ , the age factor used in determining crop-growth rate. As DDMX is approached, the growth rate drops sharply.

For perennials, DDMX is counted from January 1 (July 1 in Southern Hemisphere); for annuals, degree-day accumulation starts at planting. For example, DDMX for corn is reached well before harvest. By contrast, for a hay or silage crop, one or more harvests may have occurred before this age.

- PDRYM(J) Potential (optimum) total dry matter for crop J [kg/ha or lb/ac]. Figure 6 indicates how the crop-growth-rate/size factor  $F_m$  drops as the crop dry matter approaches this potential.
- POTY(J) Potential yield of fruit and seed of crop J [kg/ha or lb/ac]. It is not the same as the harvested weight when "harvest" may include part of plant leaves and stems.
- RDP(J) Potential maximum root depth for plant J [mm or in]. Specification of this variable should consider the effect of any restrictive soil horizons. It must also fall within the given soil profile (i.e., it must be less than or equal to depth of bottom of deepest soil horizon, GZ(NSL) on the last CO2 data line).
- PLIG(J) Aboveground lignin content of plant J, expressed as a fraction of dry matter. Values are listed for various plants in table 8.
- RLIG(J) Below-ground lignin content of plant J; expressed as a fraction of total dry matter. Values for this parameter are also given in table 8. This fraction is typically about half of PLIG.

Table 8.
Typical aboveground lignin contents for selected plant materials

Plant or crop	Aboveground lignin content weight fraction
Bluegrass Oats Early millet Soybeans Lespedeza Intermediate millet Oak (leaves) Wheat Corn stover	0.053 0.049 0.063 0.097 0.142 0.11 0.22 0.164 0.15



NELATIVE DRY MATTER PRODUCED

Figure 5. Crop age factor, which causes growth shutdown as maturity is reached.

Figure 6. Crop size factor, which causes plant growth shutdown as full potential size is reached.

- DO3: POTHT(J), PPCV(J), TGBM(J), TGOP(J), CONVF(J), DEACT(J), COVI(J), DMINIT(J)
  - POTHT(J) Potential total plant height for plant J [m or ft].
  - PPCV(J) Relative amount of ground surface covered by projected area of crop J when mature. For a thick stand of corn or grass, PPCV is near 1.0. For peanuts, PPCV is much smaller, depending on planting density. This parameter is distinguished from and complementary to PLAI, which refers to ratio of leaf area to plant projected area. PPCV refers in turn to proportion of total ground area taken up by projected mature plant area.

The following two growth temperature parameters determine the shape and position of the temperature-response function illustrated in figure 7:

- TGBM(J) Minimum temperature for growth of plant J to occur [°F or °C]. Plant growth is very sensitive to this parameter, because it is the basis for degree-day calculations. (If a simulated crop grows too fast or too slowly, one can adjust TGBM a few degrees or adjust CONVF.)
- TGOP(J) Temperature at which plant J grows at its maximum rate [°F or °C].
- CONVF(J) Biomass conversion factor for plant J photosynthesis [kg/ha/ly]. This also affects basic rate of growth.
- DEACT(J) Relative rate of loss of active leaf area for plant J after start of senescence. This is the fraction of remaining leaf weight lost per day [kg/kg/day or lb/lb/day].
- COVI(J) For a perennial plant, indicates <u>relative shading</u> of ground in winter due to permanent plant structure such as trunk, limbs, or evergreen leaves [fraction].
- DMINIT(J) Initial weight [kg/ha or lb/ac] for plant if it
  is planted as a seedling (e.g., tobacco or
  trees). If it is a seeded crop or perennial,
  this value is zero.

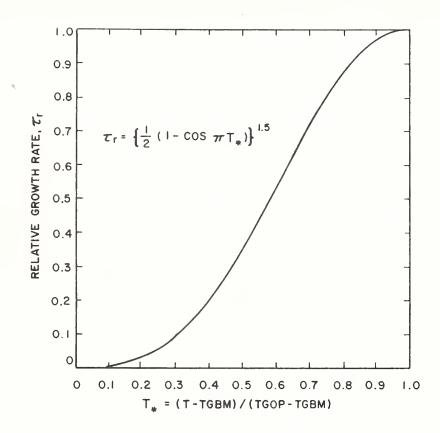


Figure 7. Crop temperature-based growth factor.

D04: CONY(J), CFXN(J), PNO(J), PNF(J), DKC(J), PNRAT(J)

- CONY(J) Fractional nitrogen content of the yield (fruit and seed) of plant J [g/g or lb/lb].
- CFXN(J) Flag that indicates ability of a plant to fix atmospheric nitrogen:

CFXN=0 Plant J is not an N fixer.
CFXN=1 Plant is an N fixer (there will be no N stress).

- PNO(J) Nitrogen content of plant J at emergence [kg/kg or lb/lb].
- PNF(J) Total nitrogen content of plant J at maximum growth [kg/kg or lb/lb].
- DKC(J) Coefficient describing relative curvature of the relation of N content versus plant mass of plant J. Figure 8 illustrates how N content of a plant typically changes from PNO to PNF over its

growth period. Values of DKC  $(C_d)$  range from approximately 3 for corn to 8 for soybeans. DKC can be determined with data and regression analysis.

PNRAT(J) Ratio of P to N in dry matter of plant J (assumed constant). Values of 0.2-0.375 are acceptable.

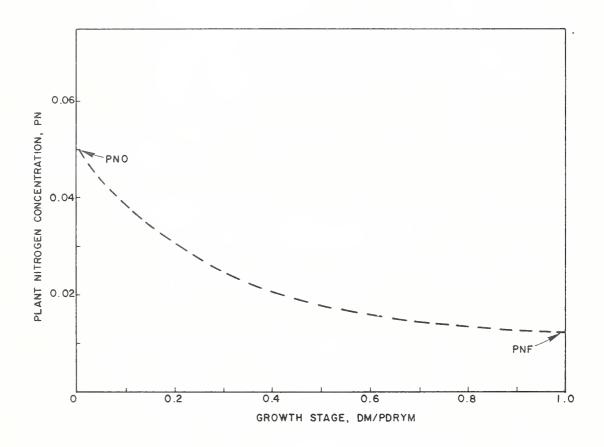


Figure 8. Plant nitrogen content as related to growth stage.

## Group E. Management Data

Input group E contains

(a) descriptive parameters for all management operations performed and substances applied (E02-E09,E18), and

(b) a schedule designating target dates, during the rotation period, when the various operations are to be performed (E10-E17). The schedule includes tillage operations (including planting and harvests); applications of pesticides, fertilizers, and manure; and irrigation. Most of these dates are subject to delay if the field is wet. The criterion for this is THEMTH, described below.

E01: THEMTH

Relative water content in the upper soil above which no field operations are undertaken [mm/mm or in/in]. Large value (e.g., 0.99) avoids delays in schedule. Relative water content is scaled between saturation and residual water content (saturation = 1.0, residual = 0.0).

Tillage Operations Description

The tillage operations are described on lines E02-E03. Five general categories or operation types (NTYTL) can be simulated, as described below.

Any particular tillage operation should fall into one of these categories. A particular operation is specified by a seven-character name, a mixing depth and efficiency, a resultant random roughness, and the resultant furrow geometry. Table 9 gives estimated values of efficiency and random roughness for a variety of tillage operations. For harvests (NTYTL=3 or 5), the efficiency value represents the relative amount of plant material removed. If the value is set to zero, only yield (seed and fruit) is removed.

A harvest (NTYTL=3) operation when the crop is perennial pasture or meadow (IPER=2 or 4) signals grazing. In this case, the relative-roughness value RFT is reinterpreted to be the length (days) of the grazing period, and the depth-of-mixing parameter PLOWD is reinterpreted as the daily rate of grazing (kg/ha or lb/ac).

When plowing (NTYTL=4) is specified with PLOWD=0.0, a chopping operation is assumed, in which standing plant material is added to surface residue only, with no soil mixing.

Lines E02-E03 contain the number of different tillage operations to be simulated and a physical description of each type.

E02: NTL Number of different tillage operations used over total rotation cycle; cannot exceed 20.

Table 9. Suggested values of variables for selected tillage operations

Tool used in tillage operation	Operation type NTYTL	Random roughness (mm) RFT & RGSURF	Mix/harvest efficiency EDTL
Large offset desk	4	50.	0.60
Moldboard plow	4	30.	0.90
Lister	4	25.	0.80
Chisel plow	4	20.	0.33
Disk harrow	4	18.	0.50
Field cultivator	2	15.	0.30
Row cultivator	2	15.	0.50
Anhydrous applicator	4	13.	0.15
Rod weeder	4	10.	0.05
Planter	1	10.	0.15
Smooth surface	-	6.	

Note: There must be NTL E03 prompts and lines.

E03: IDTIL(J), IDPL(J), NTYTL(J), RFT(J), PLOWD(J), EFTL(J), DFRW(J), WFRW(J)

- IDTIL(J) Seven-character alphanumeric identifying name for the operation, such as DISKHRW or ROOTPLW.

  IDTIL is echoed to the basic output file (created when IFOUT=2; see section "Opus Output Options") whenever the operation is performed.
- IDPL(J) Index of crop, if any, associated with tillage J. This is required for planting and harvest operations. The index refers to the order of listing in the crop list lines DO2 (e.g., fourth crop in the list is IDPL=4).
- NTYTL(J) Integer value specifying the tillage type of operation J:

NTYTL=1 Seed-planting operation.

NTYTL=2 Cultivation operation in which any crop present is undisturbed but the soil and surface residue are mixed with a given efficiency to a given depth.

NTYTL=3 Harvest (or grazing) operation in which a given part of the plant is removed, preferentially including the yield (seed or fruit) plus optionally some part of the remaining dry matter.

NTYTL=4 Plowing or turning operation involving surface and plant material in which some portion of standing plant material is either mixed into the soil to a given depth with a given efficiency or is simply added to the surface residue.

NTYTL=5 Special harvesting/plowing operation to bring roots and plant to surface and (optionally) to remove root crops (e.g., onions, potatoes, and peanuts). Does not affect standing dry matter, as does a type-4 tillage.

- RFT(J)

  (a) Random roughness on field produced by operation J [mm or in], up to about 50 mm for very deep disking. Value of surface roughness at simulation start is read as RGSURF on line B02. Example values are given in table 9.

  (b) As explained above, for harvest type under grazing perennials, this parameter is reinterpreted as representing the number of days in the grazing rotation.
- PLOWD(J)

  (a) Depth of mechanical mixing for operation J [mm or in]. PLOWD is limited to depth of top horizon, because no reasonable way exists to predict the result on physical characteristics of horizon mixing. PLOWD<10mm indicates chopping of standing material, which is added to surface residue layer.

  (b) As indicated above, only for harvest operations on grazed perennials (NTYTL=3 and IPER=2 or 4), this parameter is interpreted as daily grazing rate [kg/ha/day or lb/ac/day].
- EFTL(J) Mixing efficiency within the mixing depth for operation J. For crop harvesting (NTYTL=3 or 5), this parameter is interpreted as harvest efficiency, the relative amount of plant material removed. In this case, if EFTL=0, only the yield (fruit and seed) is removed.
- DFRW(J) Depth of furrows produced by operation J [cm or in]. When negative, no change in existing furrow depth is assumed to be caused by the operation. When positive, it specifies depth of furrows created at time of cultivation.

WFRW(J) Width of furrow produced by mechanical operation J [m or ft]. Together with DFRW(J), it describes furrow-flow geometry before any erosion alters the shape. This value must not change for operations between planting and harvesting of row crops.

## Pesticide/Radionuclide Descriptions

Lines E04 through E07 list parameters of pesticides and radionuclides (if any) applied, if IFPEST (line A03) is >0; if IFPEST=0, data on these lines are ignored. Table 10 includes many of the data called for in the following lines, for a variety of currently available pesticides. Line E07 describes the initial pesticide/radionuclide distribution in the soil.

- E04: NPST Number of different pesticides or radionuclides (either but not both) to be either traced or applied during simulation period. There must be NPST sets of prompts and data lines E05 through E07.
- E05: IDPST(K), DKFL(K), DKSOIL(K), DKOC(K), PPWLF(K), PINSLT(K), PSOLUB(K), FWASH(K), BEXTR(K), RELP(K)
  - IDPST(K) Alphanumeric identifying name for pesticide K (up to seven characters).
  - DKFL(K) Foliar decay coefficient for pesticide K. Decay is represented by exp(-DKFL\*time) and is related to foliar half-life as DKFL = 0.693/(half-life) [1/day].
  - DKSOIL(K) Decay coefficient for decay of pesticide K in the soil. The decay expression and units are same as those for DKFL. See volume I for a description of how environmental factors (temperature and moisture content) change the decay rate. Related parameters are found on E06.

Table 10. Parameter estimates for commonly used pesticides

Acceptate Accept	Common name	Trade name	PSOLUB (ppm)	DKFL	DKSOIL	k <sub>d</sub> ¹ (m1/g)	QPEST² (kg/ha)
Marsane	Acephate	1 1) (	50000.	0.0	.35		.12-4.4
## Second Control of the control of	ALACHIOR	880	77°	2 4	850.		. 24-4.4 56-1 6
Sevin 450.0 0.634 0.039 1.3 1.3 5.50-4.4    Furnadan 450.0 0.699 0.0169 1.3 1.3 5.50-4.4    Furnadan 700.0 0.699 0.0169 1.3 1.3    Furnadan 700.0 0.699 0.016 53.0    Bladex 165.0 0.347 0.049 5.0    Bladex 165.0 0.347 0.049 5.0    DEF 200.0 0.078 0.077 100.0    Banvel 4500.0 0.078 0.07    Dinoseb 5.0 0.078 0.07    Dinoseb 0.02 0.01    EPN 0.03 0.1    Dyfonate 0.02 0.13    Dyfonate 1200.0 0.01    Byfonate 1200.0 0.27    Cotoran 90 0.27    Dyfonate 1200.0 0.27    Banvel 1    Dyfonate 0.02 0.13    Dyfonate 0.02 0.14    Byfonate 0.02 0.14    Dyfonate 0.02 0.15    EPN 0.03 0.14    Dyfonate 0.02 0.15    Byfonate 0.03 0.05    Dyfonate 0.03 0.05    EPN 0.03 0.14    Dyfonate 0.03 0.05    EPN 0.03 0.01    Dyfonate 0.03 0.05    EPN 0.03 0.05    Dyfonate 0.03 0.05    EPN 0.04 0.05    EPN 0.05 0.05 0  EPN 0.05 0.05 0  EPN 0.05 0    EPN 0.05 0    EPN 0.05 0    EPN 0.07 0    EPN 0.07 0    EPN 0.08 0    EPN 0.09	Acrazine	TAZTI	? ?	7, 0	7 0	•	0.1-00.
Sevin 10000 0.00 0.00 0.00 0.00 0.00 0.00 0.	Bentazon	sagr + ೨೧	00 %	٠ رم م	۵ ر د د		. 2014.4
Furadan 700.0 0.630 0.04 1.3 1.3 1 1	Dacytace		1 c	000	0.00		
Lorsban 2.0 0.210 0.06 53.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	Carbofuran	> >4	000	63.	4.0		
Bladex   165.0   0.347   0.049   5.0   0.74   0.28-4.4	Chlorpyrifos	Н	7	.21	0	ω.	
Definition of the control of the con	Cyanazine	ad	65.	.34	.04		
DEF         1.0         0.099         0.077         100.0           Banvel         4500.0         0.075         0.084         0.077         0.071           Bidrin         10000.0         0.035         0.03         0.02         0.02           Dinoseb         0.5         0.139         0.014         200.0         0           EPN         0.02         0.017         0.01         740.0         0         0.56-4.4           Cotoran         90.0         0.017         0.01         740.0         0         0.56-4.4           Dyfonate         12000.0         0.277         0.016         2.0         0.56-4.4           Poundush         12000.0         0.277         0.023         5.0         1.12-4.4           NSMA         530.0         0.231         0.04         5.0         0.28-1.1           Pounce         530.0         0.231         0.07         4000.0         0.28-1.1           Pounce         50.00         0.347         0.05         0.22-4-4.2           Pounce         50.0         0.231         0.07         10000         0.28-1.1           Pounce         50.0         0.231         0.05         2.2-4-4.2         0.26-2.4 <td>2,4-D(amine)</td> <td></td> <td>00.</td> <td>.07</td> <td>.07</td> <td>7.</td> <td>.28-4.4</td>	2,4-D(amine)		00.	.07	.07	7.	.28-4.4
Banvel 4500.0 0.075 0.084 0.077 0.07-11.  Bidrin 10000.0 0.035 0.1  Dinoseb 50.0 0.13 4.9  EPN 0.02 0.139 0.14 200.0  Octoran 90.0 0.139 0.14 200.0  Dyfonate 12000.0 0.277 0.016 30.0  NSMA 570000.0 0.231 0.14 10.0  Paraquat 50000.0 0.231 0.04 10.0  Paraquat 50000.0 0.231 0.04 10.0  Paraquat 50000.0 0.231 0.04 0.2  Fhimet 50000.0 0.231 0.007 10000.0 0.28-1.1  Pounce 50.0 0.231 0.005 2.24-4.2  Famrod 580.0 0.231 0.005 2.24 0.56-1.6  Ramrod 580.0 0.231 0.005 2.24 0.56-1.6  Princep 8.5 0.347 0.03 3.36-6.7  Princep 8.5 0.347 0.038 2.3 2.24-4.4  Princep 8.5 0.347 0.018 3.36-6.7  Princep 8.5 0.347 0.018 3.36-6.7  Freflan 1.0 0.035 0.019 0.05-2.2	DEF	DEF		.09	0.	0.00	
Bidtin         10000.0         0.035         0.1         0.03         4.9           EPAN         50.0         0.3         0.03         4.9         4.9           EPAN         0.05         0.017         0.01         740.0         0.56-4.4           Pydrin         0.02         0.017         0.016         2.0         0.56-4.4           Cotoran         13.0         0.277         0.016         30.0         0.56-4.4           Dyfonate         12000.0         0.277         0.016         30.0         0.56-4.4           Roundup         12000.0         0.277         0.016         30.0         1.12-4.4           Sencor         530.0         0.231         0.04         5.0         1.12-4.4           Sencor         570000.0         0.347         0.029         0.2         1.12-4.4           Paraquat         500000.0         0.347         0.029         0.02         0.28-1.1           Pounce         50.0         0.347         0.03         9.4         0.56-1.6           Thimet         50.0         0.347         0.03         9.4         0.56-1.6           Ramrod         8.5         0.347         0.01         2.3         0.24-4.4	DiCamba	Banvel	500.	.07	.08	.07	.07-11.
Dinoseb         50.0         03         4.9           EPN         0.05         0.139         0.14         200.0           Pydrin         0.02         0.017         0.01         740.0           Cotorate         13.0         0.277         0.016         2.0         0.56-4.4           Dyfonate         12000.0         0.277         0.016         30.0         1.12-4.4           Roundup         12000.0         0.277         0.023         5.0         0.56-4.4           nion          60.0         0.231         0.14         10.0         1.12-4.4           Asmoor         1220.0         0.231         0.04         5.0         0.28-1.1           Paraquat         500000.0         0.231         0.07         40000.0         0.28-1.1           Pounce         50.0         0.231         0.07         40000.0         0.28-1.1           Pounce         50.0         0.231         0.05         2.24-4.2           Thimet         50.0         0.347         0.03         9.4         0.56-1.6           Thimet         50.0         0.693         0.05         2.24         0.56-1.6           Milogard         8.5         0.347<	Dicotophos	Bidrin	0000	.03	Ξ.		
te Pydrin 0.5 0.139 0.14 200.0 0.56-4.4 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Dinitro	Dinoseb	0	03	0.	4	
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Cotoran 90.0 03 0.06 2.0 0.56-4.4    Dyfonate 13.0 0.277 0.016 30.0    Inathion	Fenvalerate	$^{\circ}$	0.0	.01	0.	40.	
Dyfonate 13.0 0.277 0.016 30.0 1.12-4.4    Examinate 12000.0 0.277 0.023 5.0 1.12-4.4    Examinate 12000.0 0.231 0.14 10.0    Examination	Fluometuron	T	0	0	90.	5	.56-4.4
reathion 12000.0 0.277 0.023 5.0 1.12-4.4   Leathion 0.231 0.14 10.0   Los 530.0 0.231 0.14 10.0   Los 530.0 0.231 0.04 5.0 0.28-1.1   Los Sencor 1220.0 0.347 0.07 4000.0 0.28-1.1   Los Paraquat 50000.0 0.231 0.07 4000.0 0.28-1.1   Los Pounce 50.0 0.03 0.07 4000.0 0.28-1.1   Los Ramrod 580.0 0.347 0.03 9.4   Lin Ramrod 580.0 0.231 0.058 5.0 3.36-6.7   Lin Ramrod 8.5 0.347 0.008 2.1 1.12-4.4   Lin Poincep 3.5 0.347 0.01 2.3 2.24 0.56-1.6   Lin Ramrod 8.5 0.347 0.01 2.3 2.24-4.4   Lin Logard 8.5 0.347 0.01 2.3 2.24-4.4   Lin Logard 1.386 0.05 5.5   Los Counter 15.0 0.277 0.139 330.0   Lin Treflan 1.0 0.035 0.01 19.2 0.56-2.2	Fonofos	44	13.	.27	.01		
reathion —— 60.0 0.231 0.14 10.0 5.0 cord 5.0 cord 5.0 0.231 0.04 5.0 0.231 0.04 5.0 0.28-1.1 530.0 0.347 0.029 0.2 6.2 6-4.2 5.0 0.07 4000.0 5.2 6-4.2 5.0 0.07 100000.0 0.2 6-1.1 1.0 0.020 0.015 1000.0 0.2 6-1.1 1.0 0.058 5.0 0.05 5.0 0.058 5.0 0.059 5.0	Glyphosate	Roundup	2000.	.27	.02	υ.	.12-4.4
Or         Dual         530.0         0.231         0.04         5.0           Sencor         1220.0         0.347         0.029         0.2         0.24-4.2           MSMA         570000.0         0.31         0.007         4000.0         2.24-4.2           Paraquat         500000.0         0.231         0.007         100000         0.28-1.1           n         Pounce         0.5         0.020         0.015         1000.0         0.28-1.1           n         Tolban         0.1         0.693         0.005         22.4         0.56-1.6           r         Milogard         8.5         0.031         0.058         5.0         3.36-6.7           s         Princep         8.5         0.347         0.008         2.1         1.12-4.4           b         Princep         3.5         0.347         0.01         2.3         2.24-4.4           s         Bolstar         45.0         1.386         0.05         5.5         2.24-4.4           counter         15.0         0.035         0.01         19.2         0.56-2.2	Methyl parathion	3	.09	.23	Η.		
Sencor 1220.0 0.347 0.029 0.2 0.28-1.1 MSMA 570000.0 0.31 0.07 4000.0 2.24-4.2 24-4.2	Metolachlor	Dual	30.	. 23	.04		
MSMA 570000.0 03 0.07 4000.0 2.24-4.2 Paraquat 500000.0 0.231 0.007 100000.0 0.28-1.1    Pounce 0.5 0.020 0.015 1000.0 0.28-1.1    Thimet 50.0 0.347 0.03 9.4 0.56-1.6    In Tolban 580.0 0.231 0.058 5.0 3.36-6.7    Milogard 8.5 0.347 0.008 2.1 1.12-4.4    Princep 3.5 0.347 0.01 2.3 2.24-4.4    Bolstar 45.0 1.386 0.05 5.5    Counter 15.0 0.035 0.01 19.2 0.56-2.2    Inteflan 1.0 0.035 0.01 19.2	Metribuzen	Sencor	1220.	.34	. 02	0	.28-1.1
Paraquat 500000.0 0.231 0.007 100000.0 0.28-1.1    Pounce 0.5 0.020 0.015 1000.0    Thimet 50.0 0.347 0.03 9.4    Tolban 0.1 0.693 0.005 22.4 0.56-1.6    Ramrod 580.0 0.231 0.058 5.0 3.36-6.7    Milogard 8.5 0.347 0.008 2.1 1.12-4.4    Princep 3.5 0.347 0.01 2.3 2.24-4.4    Bolstar 45.0 1.386 0.05 5.5    Counter 15.0 0.035 0.01 19.2 0.56-2.2    Treflan 1.0 0.035 0.01 19.2	MSMA	MSMA	70000.	03	.07	4000.	.24-4.2
Thimet 50.0 0.020 0.015 1000.0 Thimet 50.0 0.347 0.03 9.4 0.56-1.6 0.1 0.693 0.005 22.4 0.56-1.6 0.231 0.058 5.0 3.36-6.7 0.03 0.058 5.0 0.347 0.008 2.1 1.12-4.4 0.347 0.008 2.1 1.12-4.4 0.347 0.01 2.3 2.24-4.4 0.05 0.05 0.05 0.05 0.00 0.00 0.00 0	Paraquat	Paraquat	00000	. 23	00.	00000	.28-1.1
Thimet 50.0 0.347 0.03 9.4   Tolban 0.1 0.693 0.005 22.4 0.56-1.6   Tolban 0.231 0.058 5.0 3.36-6.7   Milogard 8.5 0.347 0.008 2.1 1.12-4.4   Erincep 3.5 0.347 0.01 2.3 2.24-4.4   Bolstar 45.0 1.386 0.05 5.5   Counter 15.0 0.035 0.01 19.2 0.56-2.2	r.	Pounce	0	.02	.01	000	
Tolban 0.1 0.693 0.005 22.4 0.56-1.6 8mrod 580.0 0.231 0.058 5.0 3.36-6.7 3.36-6.7 8.5 0.347 0.008 2.1 1.12-4.4 9.5 8.5 0.347 0.01 2.3 2.24-4.4 8.5 0.347 0.01 2.3 2.24-4.4 9.5 8.5 0.01 2.3 2.24-4.4 9.5 8.5 0.01 2.7 0.139 30.0 0.56-2.2 9.5 0.56-2.2	Phorate	Thimet	。	.34	0.	<u>.</u>	
Famrod 580.0 0.231 0.058 5.0 3.36-6.7 8.5 0.347 0.008 2.1 1.12-4.4 9.5 0.347 0.008 2.1 1.12-4.4 9.5 0.347 0.01 2.3 2.24-4.4 9.5 0.347 0.01 2.3 2.24-4.4 9.5 0.01 2.3 0.05 5.5 0.01 1.386 0.05 5.5 0.01 1.386 0.05 5.5 0.01 1.386 0.05 5.5 0.01 1.386 0.05 5.5 0.01 1.386 0.05 0.56-2.2	Profluralin	Tolban		. 69	00.	2	.56-1.6
Milogard 8.5 0.347 0.008 2.1 1.12-4.4 3.5 0.347 0.01 2.3 2.24-4.4 5.0 1.386 0.05 5.5 Counter 15.0 0.035 0.01 19.2 0.56-2.2	Propachlor	Ramrod	80.	. 23	.05		.36-6.7
Frincep 3.5 0.347 0.01 2.3 2.24-4.4 bolstar 45.0 1.386 0.05 5.5 Counter 15.0 0.277 0.139 30.0 in Treflan 1.0 0.035 0.01 19.2 0.56-2.2	Propazine	logar		.34	00.		.12-4.4
Bolstar 45.0 1.386 0.05 5.5 5.5 Counter 15.0 0.277 0.139 30.0 5.6-2.2 in Treflan 1.0 0.035 0.01 19.2 0.56-2.2	Simazine	Princep	ო	.34	0.		.24-4.4
Counter 15.0 0.277 0.139 30.0 in Treflan 1.0 0.035 0.01 19.2 0.56-2.2	Sulprofos	Bolstar	5.	.38	0.	δ.	
rifluralin Treflan 1.0 0.035 0.01 19.2 0.56-2.2		unt	5.	.27	. 13		
	riflural	ef]		.03	0.	თ	.56-2.2

 $^1 KOC$  is  $K_d$  divided by organic carbon content of the soil (usually use top layer or an average of several top layers, if shallow): DKOC =  $K_d/(ORGC(1)/100)$ .

<sup>2</sup>Range for active ingredient. Values are examples of amounts used in tests, not recommended application amounts (USDA 1980, pp. 549-554; USDA-SCS 1984, p. D-2).

<sup>3</sup>Preemergence herbicides and directed herbicidal sprays do not get on crop foliage, so a foliage residue half-life for these chemicals is 0.0.

- DKOC(K) Equilibrium adsorption coefficient for pesticide K [mL/g; English units not used], which is multiplied by carbon content (fraction by weight) to obtain the estimated isotherm adsorption coefficient (k<sub>d</sub>) for soil adsorption ratio of pesticide K. Table 10 lists k<sub>d</sub> values for commonly used pesticides. To calculate DKOC, divide these values by the organic carbon fraction of the topsoil (ORGC(1)/100). For a radionuclide (whose adsorption is not dependent on organic carbon as are pesticides), the value read in as DKOC is used directly as k<sub>d</sub>.
- PPWLF(K) Amount of pesticide K initially on plant surfaces [kg/ha or lb/ac].
- PINSLT(K) Initial concentration of pesticide K that is in the top 10-mm surface region of the soil [mg/kg of soil, or ppm]. There are two ways to assign initial soil pesticide profile values, depending on whether the user knows the depth distribution of residual pesticides. If only surface PINSLT is known or estimated, Opus initializes the remaining root zone by distributing decreasing amounts in lower layers. USE THIS METHOD ONLY WHEN ACTUAL INITIAL CONCENTRATIONS ARE NOT KNOWN. For this approximation, line E07 is left blank. Otherwise, assign concentration-depth values on line E07 and leave PINSLT blank.
- PSOLUB(K) Water solubility of pesticide K [g/t or ppm].
- FWASH(K) Plant-washable portion of pesticide K. It is a value from 0.0 to 1.0, indicating the portion of pesticide on the plant surface that is subject to being washed off by rain (or sprinkle irrigation).
- BEXTR(K) Surface flow extraction coefficient for pesticide K, expressing the net action of various factors that determine pesticide pickup by surface runoff [kg/L].
- RELP(K) Rate factor for the kinetic adsorption model [min<sup>-1</sup>]. This parameter is used as a flag to turn on the kinetic adsorption option: Values greater than or equal to 0.01 are comparatively large and result in default use of the equilibrium model. Also, if given as 0. or less, default=0.9 is used (equilibrium adsorption).

E06: DKTHE(K), DKTEMP(K), ARRHC(K)

Line E06 contains information about the pesticide degradation factor DKSOIL, as follows:

- DKTHE(K) Relative soil moisture content at which the given DKSOIL(K) [line E05] was determined, if known [mm³/mm³ or in³/in³]. Varies between 0.0 at 15-bar tension to 1.0 at saturation. Default = 0.5.
- DKTEMP(K) Temperature at which DKSOIL (E05) was determined, if known [°C or °F]. Default = 21°C.
- ARRHC(K) Arrhenius equation activation energy for degradation effects on pesticide K [Kcal/mole]. Default = 10.0.

E07: PLCON(I,K), PLDEP(I,K), I=1,10

Line E07 contains pairs of concentration-depth data that describe initial residual pesticide K in the soil. Values are entered 5 pairs per line, with a maximum of 10 pairs (2 lines). The values of PLDEP need not correspond to input soil horizons, because they rarely do in available data. Opus assigns depth-weighted average values to its computational layering scheme. When the maximum PLDEP depth is less than the deepest soil horizon, the last value PLCON is extended to the lower boundary of the current computational layer, and initial pesticide in each successive layer is initialized to 1% of the value of the previous layer.

- PLCON(I,K) Initial concentration of pesticide K in soil beween depth PLDEP(I-1,K) and depth PLDEP(I,K) [mg/kg of soil, or ppm].
- PLDEP(I,K) Depth (from the surface) to the bottom of region where PLCON(I,K) applies [mm or in].

#### Manures

Lines E08 and E09 list information about any user-defined manures to be applied as a management operation. Nine manure types (typing based on composition) are contained in an Opus internal database (listed in table 11). If the parameter NMAN on line E08 is zero, the user must use only database-supplied manures.

E08: NMAN Number of manure types for which characteristics are to be read on line E09. Must be ≤10.

Table 11.
Properties of manure types included in Opus

Source	N	ATN(N) (%)	ANH(N) (%)	APHOS(N)	AOM(N) (%)
Beef, solid	1	2.10	0.36	0.80	52.0
Dairy, liquid	2	0.115	0.10	0.005	0.10
Dairy, solid	3	2.00	0.48	0.60	18.0
Horse, solid	4	1.10	0.0	0.20	21.0
Domestic sludge	5	5.20	0.21	2.50	30.0
Poultry, solid	6	5.00	0.0	1.80	75.0
Sheep, solid	7	4.00	0.0	0.60	28.0
Swine, solid	8	0.141	0.13	0.005	1.0
Swine, liquid	9	2.80	0.0	0.60	18.0
(Reserved for user-definition)	10				one one

Line E09 and its prompt are repeated NMAN times.

E09: N, ATN(N), ANH(N), APHOS(N), AOM(N)

N Identifying index of manure type being read. If less than 10, replaces the database type number N. Cannot be >10.

ATN(N) Total nitrogen content of manure type N [%].

ANH(N) Ammonia content of manure type N [%].

APHOS(N) Phosphorus content of manure type N [%].

AOM(N) Organic matter content of manure type N [%].

Management Schedule Information

Lines E10-E17 describe the schedules of tillage, fertilizer applications, and pesticide applications. These data refer to the <u>timing</u> of operations, compared with their basic parameters, which were given in the previous data lines E02-E09.

E10: NYROT Number of years in rotation cycle. Maximum value is 5.

Lines Ell-El7 are a set repeated for each year [Y = 1 to NYROT] in the rotation sequence. There must be NYROT sets of Ell-El7 prompts and lines.

Ell: NTY Number of tillage operations during rotation year

E12: MO, IDA, KTILL

There must be NTY pairs of E12 prompts and lines. Line E12 contains the chronological tillage schedule:

MO Month of the operation.

IDA Day of month of tillage.

KTILL Identifier of particular tillage operation, corresponding to rank in tillage list read in lines E05 (e.g., fourth tillage operation in the list is KTILL=4).

Lines E13-E14 are included for each year in the rotation cycle but are used only if the nutrient option flag IFNUT is nonzero. This set describes the number and schedule of the year's fertilization and/or animal-waste-application operations. Applications must be in chronological order.

E13: NFR(Y) Year's total number of nutrient or waste applications (up to 10); indicates number of E14 prompt and line pairs to follow.

E14: MO, IDA, KAPPL(Y,J), FERN(Y,J), FERP(Y,J), FERA(Y,J), MATYP(Y,J), RATE(Y,J), DEPIN(Y,J)

There must be NFR E14 prompt and line pairs. Applications must be listed in chronological order.

MO Month of application J.

IDA Day of month of application J.

KAPPL(Y,J) Method code for the J<sup>th</sup> nutrient application in rotation year Y. Application methods are:

KAPPL=0 Surface-applied.

KAPPL=1 Injected.

KAPPL=2 Dissolved in irrigation water.

FERN(Y,J) Amount of fertilizer NO<sub>3</sub>-N applied in application J [kg/ha or lb/ac].

- FERP(Y,J) Amount of fertilizer PO<sub>4</sub>-P applied in application J [kg/ha or lb/ac].
- FERA(Y,J) Amount of fertilizer  $NH_4$ -N applied in application J [kg/ha or lb/ac].
- MATYP(Y,J) Manure applied in the J<sup>th</sup> application in rotation year Y. This is zero for application of a fertilizer (and not manure). For manure applications, NMAN must be >0 and this parameter takes values from 1 to 10, corresponding to the identifying index of default manure type or the index of data read on line E09.
- RATE(Y,J) Application rate or loading of manure, if any in the J<sup>th</sup> application in rotation year Y. For solid or sludge material, RATE is given in tonnes/ha or tons/ac. For liquid application, units are for volume per unit area [mm or in].
- DEPIN(Y,J) Depth of injection of manure or fertilizer, if injected (KAPPL=1), in the J<sup>th</sup> operation [mm or in].

Lines E15-E16 are included for each year in the rotation cycle but are used only if the pesticide option flag IFPEST is nonzero. This set describes the number and schedule of the year's pesticide application operations, which must be in chronological order.

E15: NPEST(Y) Number of pesticide applications in rotation year Y. Limit is 15 applications per year for each of the (up to 5) rotation years.

E16: MO, IDA, KPEST(Y,J), IAPLIC(Y,J), QPEST(Y,J), FRACA(Y,J), FRACP(Y,J), DEPST(Y,J)

There must be NPS E16 prompts and lines. This data line includes specification of the pesticide amount and the application method. If enough is known about the particular method of application, the user may specify the resulting distribution of pesticide, in terms of fraction of total application that appears on soil and on plants or that is lost into air. Figure 9 illustrates this division and the data names for each.

MO Month of application J.

IDA Day of month of application J.

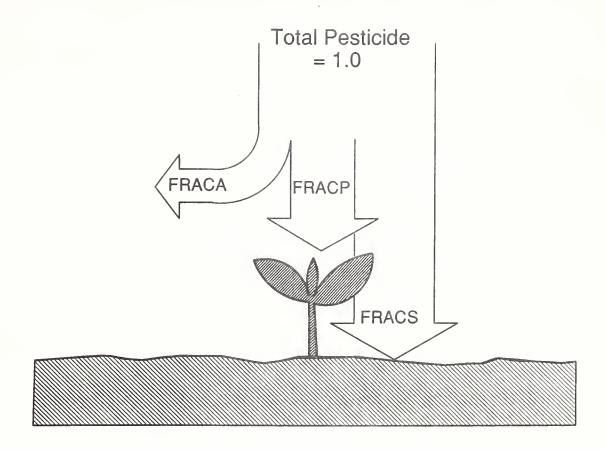


Figure 9. Scheme of possible fractions of total pesticide applied.

Amount of each fraction depends on application method.

# 

IAPLIC=0	Soil injection.
IAPLIC=1	Spray application, with specified divi-
	sion between proportion landing on soil
	and that landing on plant surfaces.
IAPLIC=2	Application in irrigation water.
IAPLIC=3	Aerial application as in 1, but the
	program, on the basis of current above-
	ground plant mass, calculates the rela-
	tive amounts landing on plant and soil
	surfaces.

- QPEST(Y,J) Amount of pesticide applied in the J<sup>th</sup> application [kg/ha or lb/ac].
- FRACA(Y,J) Fraction of applied amount of pesticide K that is lost in application. This is near zero for soil-incorporated pesticides but is much larger for aerial application.
- FRACP(Y,J) Fraction of applied pesticide K that reaches plant surfaces (the division is illustrated in fig. 9). This value is close to zero for preemergent herbicides. FRACP plus FRACA equals 1.0-FRACS, where FRACS is the fraction of applied pesticide that reaches the soil surface. When IAPLIC(K), defined above, is 3, the program calculates FRACS and FRACP from the given value of FRACA and the current amount of plant material on the field.
- DEPST(Y,J) Depth of pesticide injection [mm or in], if IAPLIC is zero.
- E17: IRRDY, MO, IDA, NIRD, AMIRR, TIRR, THIRR, QIRR

Line E17 specifies the irrigation schedule, if any, for rotation year Y.

- IRRDY(Y) Number of days in irrigation season, for ditch supply-type irrigation.
- MO(Y) Month in which irrigation season begins.
- IDA(Y) Day of month on which irrigation season begins.
- NIRD(Y) Interval of days between irrigation opportunities for regulated ditch supply irrigation (IFIRR=3).
- AMIRR(Y) Maximum depth of irrigation per event [mm or in].
- TIRR(Y) Total annual irrigation supply [mm or in] (IFIRR=3).
- THIRR User-selected threshold water content of near-surface soil, below which irrigation will be performed in a demand-type schedule system (IFIRR=1 or 2) [mm/mm or in/in]. THIRR is scaled between residual and saturated water content, so it takes values from 0 to 1.

QIRR

Rate of application to the whole field area  $[m^3/s \text{ or } ft^3/s]$ . This information is used with AMIRR to determine length of irrigation period.

Draintiles

E18: DRSP, DDIMP, RCLM

Line E18 specifies position of draintiles and subsurface leakage rates when use of draintiles is simulated (IFDRAN≥1). The line may be blank when IFDRAN=0. These parameters cannot be changed between years.

DRSP Mean drainage spacing [m or ft].

DDIMP Depth below drains to a restrictive or impervious boundary [m or ft]. If a value is unknown, use a large number, not zero (there is no internal default).

RCLM Mean rate of seepage through restrictive boundary at depth DDIMP [mm/hr or in/hr]. This can be zero but not negative.

## Group F. Hydrologic Field Dimensions

Group F describes the dimensions and slope shape of the catchment as interpreted for hydrologic purposes. The actual topographic shape must be interpreted in terms of a hydrologically representative set of rectangular fields and receiving channels. The mean-path-slope pattern may be described in some detail (as illustrated below) whereas a natural-catchment-plan shape must be interpreted to a variable extent into geometrically simpler units.

The general interpretation of an elementary catchment is illustrated in figure 10. The transformation or mapping of the actual catchment shape into the geometrical hydrologic equivalent is partly subjective, but the resulting abstraction should preserve the following features:

- (a) catchment area
- (b) mean surface (or overland) flow-path length
- (c) net slope of mean flow path
- (d) concentrated (or channel) flow-path length.

Figure 10 shows the method for accomplishing such representation in one example. Points on the natural topography at the top of the figure have been mapped to hydrologically similar points on

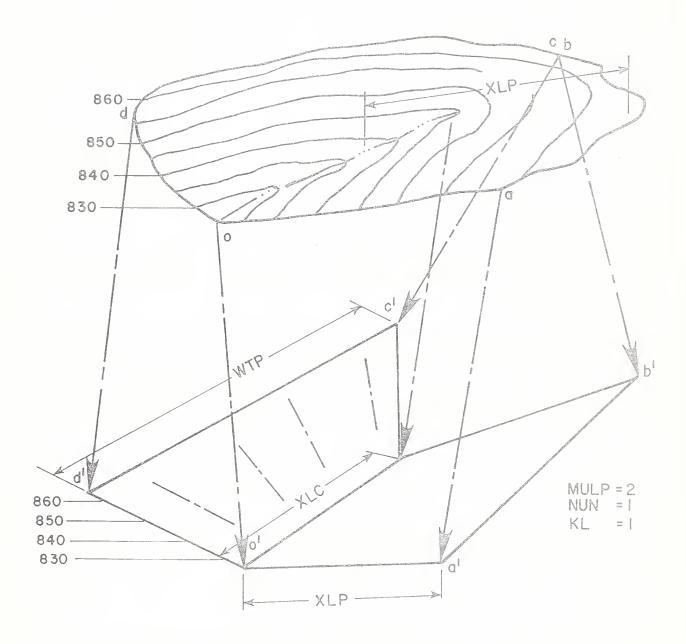


Figure 10. Elementary catchment simplification, showing interpretation of a contour map into a geometrically simpler hydrologic equivalent.

the interpreted catchment below. Area, mean flow-path lengths, and net slopes have been preserved. Note that convergence of the overland flow is also preserved by matching the width of flow at the catchment divide with a similar dimension in the geometrical representation. This divide length, or upper flow width, is shown as parameter WTP. XLP is the mean field or surface-flow-path length, and XLC is the channel or concentrated-flow-path length. As can be seen in figure 10, if WTP is greater than XLC, the flow is convergent.

Opus constrains the unit-catchment topology to have either (a) a single, plane surface contributing to one side of a receiving channel or (b) identical planes contributing to both sides of a receiving channel. The total field may, however, be made up of several such unit catchments (as in a terrace system) that contribute to a second channel.

The shallow-flow part of the field is not necessarily a plane surface. For example, it may be made up of parallel microchannels like those in a furrowed field. The shallow-flow part may also be a large, relatively featureless surface like that on a natural catchment. The changes in slope along the flow path may be described in some detail. Figure 11 illustrates how local slope should be described by an array of data pairs, consisting of a local slope and the distance from the top of the field or catchment divide to the given location. Since the model interpolates between successive points with a smoothly changing slope, it is not necessary or useful to specify slopes between end points of any reach in which the slope changes smoothly, especially where the profile is similar to an arc. The user can best describe a complicated slope profile by keeping in mind that Opus will fit arcs between each specified point, each tangent to the specified slope at the end points where the arcs join.

Opus allows the user to construct the total field hydraulic geometry with multiples of a simple unit. As indicated above, the basic unit may be either a one-sided element (MULP=1) or a two-sided element (MULP=2) (such as in fig. 10). This feature allows the description of more complex field shapes, such as fields with divided flow, and particularly terrace systems (as illustrated below). The number of units aggregated is termed NUN.

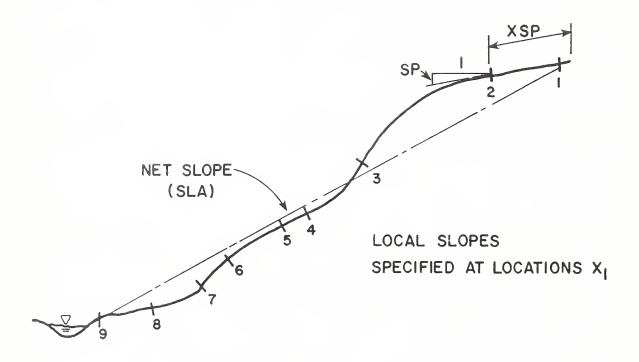


Figure 11. Definition diagram for specifying local slopes.

Opus recognizes that tillage and resultant furrows can significantly affect the actual hydrologic geometry of an area. Thus, hydrologic geometry data may be read for both the natural, untilled flow paths and the furrowed flow paths for a given field. This requires the input of two sets of hydrologic topography information. Set 1 is the untilled case, for unfurrowed flow, coded KL=1. Set 2 is the tilled case, for the furrow flow paths, coded KL=2. For simulation of untilled or natural catchments (NTY=0 on Ell), only the first (KL=1) case needs to be read.

Figures 12 and 13 exemplify the two geometries that describe alternate flow paths for an example field. In figure 12, flow follows the natural shape, flowing perpendicularly to the contours and thus converging toward the outlet (pictured as a small impoundment). The value of WTP is computed within the program to preserve the field area, using flow length and the length of the intercepting channel, XLC. Mean flow path XLP(1) is assumed measured (input). Thus, total field area (here with a negligible XLC) will be = 0.5\*(XLP(1))\*(WTP(1)+XLC(1)). The parenthetical 1 refers to unfurrowed (KL=1) geometry.

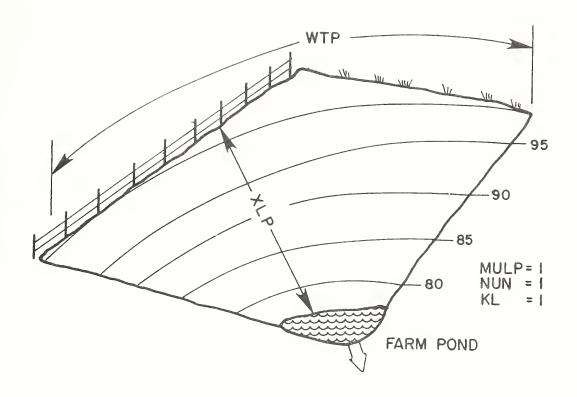


Figure 12. Untilled field example, with flow perpendicular to contours, converging to small pond.

If the same field is tilled as shown in figure 13, furrows will cause runoff to flow along the left-to-right furrow "channels." Convergence cannot occur in furrowed (KL=2) conditions unless the overtopping negates the furrow control. In the furrowed condition, the total flow path is lengthened and the slope profile is flattened and changed, but the total elevation change from top to bottom should be preserved. Mathematically

$$XLP(1)*SPL(1) + XLC(1)*SC(1) = XLP(2)*SPL(2) + XLC(2)*SC(2)$$

where SPL is net plane slope and SC is net channel slope.

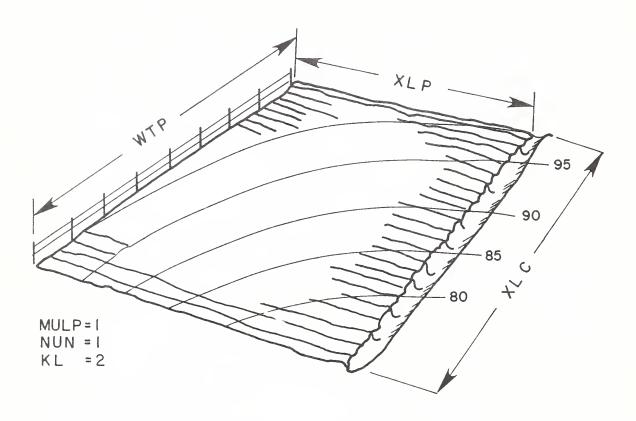
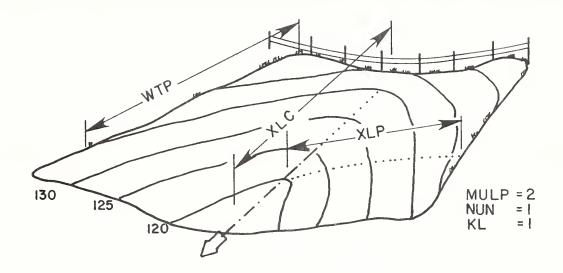


Figure 13. Topology of a tilled field.

Figure 14 gives two other examples of how simplified hydrologic geometry is obtained from natural topography. In the upper example, because water flows normal to the contours, the field's actual rectangular shape should be somewhat distorted to preserve the actual field flow-path length in the simplification. This is because the flow, as shown, is at some angle to the field border and is thus somewhat longer.

In the lower case in figure 14, flow diverges somewhat from the top of the field, because the field occupies the side of a "domed" hill. Opus is designed to accommodate convergence in its distributed-hydrology options. Divergent flow, being rather uncommon, is omitted for practical reasons. Divergent flow does not enhance erosion, for example. Thus the geometry is simulated as shown. XLP(1) is the true mean of the actual flow paths, and WTP(1) is internally adjusted to match the actual area. XLC(1) may be greater than WTP(1).



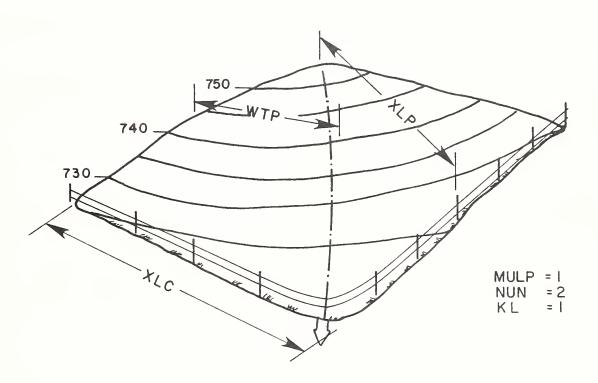


Figure 14. Two more examples of field topology, demonstrating variations in variables XLC, XLP, and WTP to describe field topography.

Figure 15 is a representation of a terrace system. In this case, flag parameter ITOCH must be set positive, and the program then expects to read extra data lines to describe the terrace outlet channel. If the individual terrace-drainage areas are not equal, perhaps because of converging flow lines, the areas should be approximated as equal, using the mean terrace-drainage area. Because it is assumed that the terrace spacing is uniform, all terraces are treated as identical.

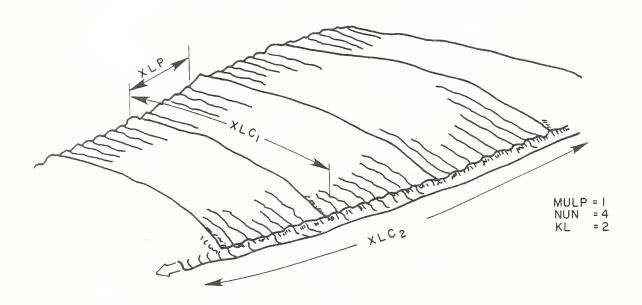


Figure 15. Example drawing of a terraced field showing basic descriptive parameters.

ITOCH is also set positive when the simulation of furrow conditions is desired at a higher order of detail. In other words, when the furrow side slopes are to be considered as short runoff planes, the furrows are treated as the channel draining the furrow side as a microwatershed. The first concentrated flow intercepting the furrow flow is treated as the second channel. This should be done only for special cases of exceptionally wide furrows (several meters).

When furrows parallel the terrace and are near zero in slope, runoff is delayed by the added storage volume in the furrows.

Contributions to the terrace channel (XLC(2)) conceptually occur only after furrow storage is exhausted and flow is effectively perpendicular to the furrows. In Opus, this is simulated in just this manner. Thus, although furrows are parallel with the channels in this case, and XLP(2) should be measured along the terrace, the program will select XLP(1) when furrow slope is sufficiently small, and furrow storage will be part of the runoff simulation. The upper slope limit for this case is 0.001.

Figure 16 exemplifies an abstracted catchment of relatively complex geometry. PAR is the area of an elementary unit, here composed of a pair (MULP=2) of planes with a central channel and a small upstream area ARUP(1). There are four such units (NUN=4) in the total catchment, plus an area at the head of the central channel, ARUP(3). The central channel is a second-order channel, so it is element number 3, and the upper area is termed ARUP(3). The total catchment area is ARUP(3) + 4\*PAR.

Figure 17 shows the geometric simplification of a terrace system with a central outlet channel. Such an arrangement resembles the test example used in volume I, chapter 9. MULP=1 because only one plane contributes to the first channel, but there are eight such units in all: Total area = 8\*PAR.

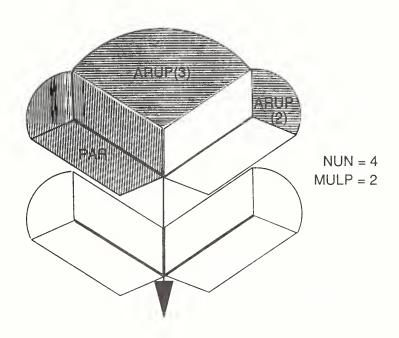


Figure 16. Example of an Opus simplification of a rather complex catchment.

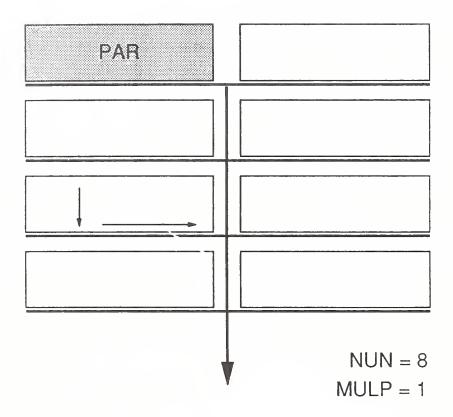


Figure 17. Simplified geometric representation of a terraced field with outlet channel, showing the Opus parameters used for its geometric features.

Another example helps to illustrate the process of geometric abstraction from actual catchments. Figure 18A shows a contour and soils map of a small 1.29-ha catchment in Georgia, near the catchment used for testing in volume I, chapter 9. There is a

swale channel that is ephemeral insofar as it is destroyed by plowing. The suggested abstraction for Opus is shown in figure 18B. The upper section has been reserved as an upstream contributing area, with ARUP chosen as 0.2 ha. Furrow direction is east-west (across the page). An estimated mean flow length XLP under furrowed flow is 45 m. These numbers specify a mean width of the two surfaces of 121 m. The channel can be longer or shorter than this and should be measured from the map, but preferably on the ground. XLC = 120 m is used here.

Furrows direct the runoff and change the mean flow length, but here the unfurrowed case would have flow lengths similar to those in the furrowed case. This is because the lower right half of the catchment has furrows going nearly straight downslope, and the angle of the furrow with the downslope direction on the left side is not large. Under unfurrowed conditions, especially on the left, downslope flow has a somewhat longer mean length and smaller effective width; 55 m is chosen to represent this on average. The dotted lines in figure 18B show this in simple geometric equivalents, preserving the overall area. The mean channel slope SLA(1,2) or SLA(2,2) can be measured as approximately 0.01. A selected representative slope profile for the surface flow is shown in figure 18C. Slopes at each of the three points shown and their distances from the upper end are entered into the parameter file. A slope profile for the channel can be specified as well, if slopes change significantly along its length.

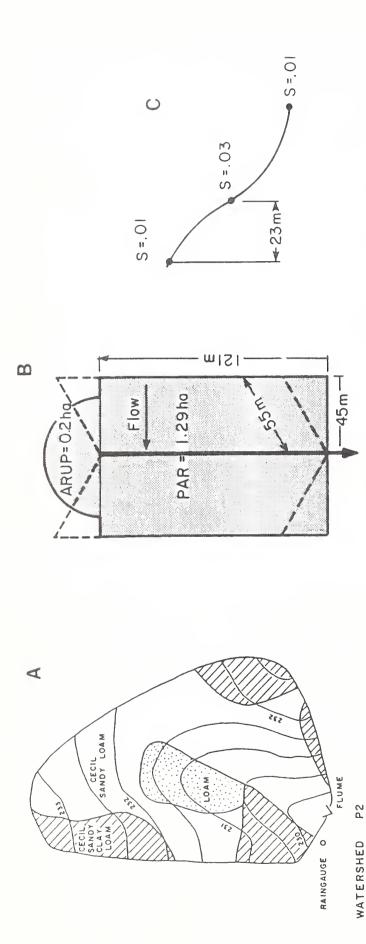
Line set F01 through F11 is used to describe the hydrologic geometry as described above. The set is read once for the natural topography (KL=1) and again for the furrowed flow geometry (KL=2), unless it is an unmanaged watershed (NTL=0). Data reading includes a check to determine if any tillage operation that creates furrows is included. If not, the program reads only one set of F01-F11 data.

Lines F01 through F06 contain data describing the distributed, shallow-flow area over which runoff flows before entering a concentrated flow path.

F01: IFFIX, ITOCH, MULP(KL), XLP, SLA, PAR, PMN

IFFIX Flag indicating whether a fixed or unmanaged strip is encountered along the flow path (such as a grass buffer).

IFFIX=0 No fixed strip in this element.
IFFIX=1 Fixed strip simulated; must be described on line F04.



A test field in Watkinsville, GA. A, Topographic map. B, Opus' abstraction of relevant hydrologic geometry. C, Opus' representation of typical profile slopes, using three points along the profile. Figure 18.

SCALE: 120m

ITOCH Indicates presence of a second-order channel.

ITOCH=0 No second-order channel present.

ITOCH=1 Second-order channel to be simulated. Opus will read an additional F07-F10 set describing the second channel for case KL = 2.

MULP(KL) Specifies whether one or two plane units make up the unit catchment that is drained by the first-order channel or concentrated-flow element for flow-path configuration KL. If a single plane with no channel is being simulated, such as a plot experiment, specify MULP(KL)=0. In this case, ITOCH must not be positive (a second channel cannot exist if there is no first channel).

XLP Length of mean flow path before runoff enters the first concentrated flow or channel in this configuration [m or ft].

SLA Mean overall slope of path XLP [m/m or ft/ft].

PAR Total area contributing to the outlet of the first concentrated flow or channel reach [ha or ac]. This area is presumed to be composed of two identical planes if MULP(KL) (above) has been given a value of 2, and will include an upstream direct contributing watershed area (ARUP) specified below. Also, for each value of KL, DA should equal NUN(KL)\*PAR [+ ARUP(3), if ITOCH>0].

PMN Manning's n for the first hydrologic element (distributed flow area). This value is used until first tillage operation that changes it. See table 12 for values for many conditions.

Lines F02 and F03 may be used to describe slope complexities.

FO2: NPT(KL) Number of points at which the local slope is detailed for path XLP(KL). NPT cannot exceed 10.

F03: XSP(I), SP(I), I=1,5

Line F03 contains pairs of values of XSP(I) and SP(I), with five pairs to a line for as many lines as necessary to read NPT(KL) pairs.

XSP(KL) Distance from the upstream divide to a point at which SP(KL) is specified [m or ft].

SP(KL) Slope at point XSP(KL).

Table 12. Estimates of Manning's n (PMN and RMNF) for overland flow

Treatment	Condition	Manning's	n
Cornstalk residue:			·
Applied to fallow interface	1 tn/ac	0.020	
• •	2 tn/ac	0.040	
	4 tn/ac	0.070	
Disk-harrow incorporated	1 tn/ac	0.012	
_	2 tn/ac	0.020	
	4 tn/ac	0.023	
Small grain (20% to maturity	):		
Across slope	Poor stand	0.018	
	Moderate stand	0.023	
	Good stand	0.032	
	Den <b>se</b> stand	0.046	
Up-and-down slope	Poor stand	0.012	
	Moderate stand	0.015	
	Good stand	0.023	
	Dense stand	0.032	
Rough surface depressions:	4 - 5 inches deep	0.046	
	2 - 4 inches deep	0.023	
	1 - 2 inches deep	0.014	
	No surface depressions	0.010	
Wheat-straw mulch:	0.25 tn/ac	0.015	
	0.5 tn/ac	0.018	
	1 tn/ac	0.032	
	2 tn/ac	0.070	
	4 tn/ac	0.074	
Crushed-stone mulch:	15 tn/ac	0.012	
	60 tn/ac	0.023	
	135 tn/ac	0.046	
	240 tn/ac	0.074	
	375 tn/ac	0.074	
Grass:	Sparse	0.015	
	Poor	0.023	
	Fair	0.032	
	Good	0.046	
	Excellent	0.074	
	Dense	0.150	
	Very dense	0.400	

Adapted from USDA (1980), p. 241.

F04: XLFS, XLFE, RMNF, SLRF, PRFF

Line F04 describes an unmanaged (fixed) area that may be included in the field flow path, such as a grassed buffer or waterway, which is not subject to erosive modifications. Line F04 is required, but data are ignored if IFFIX=0 (line F01).

XLFS Distance to beginning of the fixed or bufferstrip area [m or ft].

XLFE Distance to end of the fixed or buffer-strip area [m or ft].

RMNF Manning's roughness coefficient for the fixed area. Table 12 contains RMNF values for various cover conditions.

SLRF Soil-loss ratio or USLE C factor for erosion potential on the fixed area (should be near 0 for a grass buffer strip).

PRFF USLE P, cropping practice factor, for the fixed area.

If erosion is simulated (IFSED>0) and if spatially variable soil erodibility is to be used (IVARK>0), lines F05-F06 must describe spatial distribution of the USLE soil erodibility coefficient K. This capability is intended for use only when there is a known and significant change in the erodibility of the soil along the slope. To specify a uniform soil K, set IVARK=0 (line A03), but include these two lines plus templates with dummy or blank data. For variable K, at least two pairs of values should be specified, with one having distance XKS equal to or greater than XLP.

F05: NPK Number of different areas of various soil K's to be specified, up to 10.

F06: XKS(I), USK(I)

There must be NPK F06 templates and lines, listed with five data pairs to a line.

- XKS(I) Mean distance to downstream border of the area I
  having soil K=USK [m or ft].
- USK(I) USLE soil K [Tn-hr/MJ/mm or t-ac-hr/100 ac-ft/ft-tonf/in] for segment I.

Lines F07 through F10 describe the concentrated flow or channel hydraulic and erosion parameters in much the same manner that lines F01 and F06 do. <u>Lines F07 through F10 are repeated as a set if a second channel is specified (ITOCH>0)</u>.

F07: IFFIX, NUN(KL), NEPH(KL), XLC, SLA(KL,L), ZCA(KL), ARUP(KL,L), WINIT, DINIT, PMN

Line F07 contains the basic data for channel L (L=2 or 3).

IFFIX Indicates, as for the field surface, if the channel length includes a section not subject to erosion or management changes, such as a grasslined portion. If greater than zero, this flag causes the program to read data on line F10, which describe the properties of this fixed section.

NUN(KL) Number of subwatershed units, each with area PAR, making up the area drained by this channel. For a terraced field, when L=2, this represents the total number of terrace units contributing to the outlet channel (L=3).

NEPH(KL) Flag that indicates channel permanence:

NEPH=0 Channel is permanent.
NEPH=1 Channel is ephemeral and is reset or erosion changes are destroyed by tillage operations.

Length of channel [m or ft]. For a field that flows without a noticeable channel to an outlet point, XLC may be zero (e.g., see vol. I, fig. 5). A negative value of XLC, equal in absolute value to the input boundary length of the pond, indicates flow of this nature to a pond or impoundment, and other channel data on this line are ignored if not needed. A value for XLC is required so that flow convergence is recognized and computed.

SLA(KL,L) Mean overall slope of the channel L for hydrology condition KL [m/m or ft/ft].

ZCA(KL) Mean side slope of the channel section, as a
ratio of horizontal to vertical dimensions. ZCA
is zero for rectangular channels [m/m or ft/ft].

ARUP(KL,L) Area considered to be contributing directly to the beginning point of the defined channel L [ha or ac]. The remaining area is treated as contributing laterally along the channel length.

WINIT Initial channel bottom width at the channel outlet [m or ft]. Initial bottom width is assumed to decrease as the square root of the relative distance upstream decreases.

DINIT Initial channel depth, assumed uniform along the channel [m or ft].

PMN Manning's n for channel element. Table 13 contains channel n values for many conditions.

Lines F08-F09 describe the channel slope profile and are analogous to lines F02-F03 in the surface flow description.

FO8: NPT Number of slope locations specified.

F09: XSP(I), SP(I) (up to five pairs per line)

SP(I) Local slope at location XSP(I) [m/m or ft/ft].

F10: XLFS, XLFE, RMNF(KL,L), TAUCF, SLRF, WIDFX(KL,L)

Line F10 data are required if IFFIX>0 (line F07). This line contains data analogous to those in line F04. These data describe the characteristics of the channel section within which are assumed no erosive or management changes with time.

XLFS Distance from the upstream point of the channel to the beginning of the fixed section [m or ft].

XLFE Distance from the upstream point of the channel to the end of the fixed section [m or ft].

RMNF(KL,L) Manning's n for this section. Table 13 contains values for this parameter.

Table 13. Estimates of Manning's n (RMNF and PMN) for channel flow

Cover	Cover density	Manning's n <sup>1</sup>
Smooth, bare soil;	<li><li><li>in. deep</li></li></li>	0.030
roughness elements	1-2 in. deep	0.033
	2-4 in. deep	0.038
	4-6 in. deep	0.045
Corn stalks (assumes that	1 tn/ac	0.050
residue stays in place	2 tn/ac	0.075
and is not washed away)	3 tn/ac	0.100
	4 tn/ac	0.130
Wheat straw (assumes that	1 tn/ac	0.060
residue stays in place	1.5 tn/ac	0.100
and is not washed away)	2 tn/ac	0.150
	4 tn/ac	0.250
Grass (assumes that grass	Sparse	0.040
is erect and that flow	Poor	0.050
depth does not exceed	Fair	0.060
height of grass)	Good	0.080
	Excellent	0.130
	Dense	0.200
	Very dense	0.300
Small grain (20% to maturi	ty):	
Rows with flow	Poor, 7-in. rows	
	Poor, 14-in. row	
	Good, 7-in. rows	0.300
	Good, 14-in. row	s 0.200
Rows across flow	Good	0.300
Sorghum and cotton	Poor	0.070
-	Good	0.090
Sudangrass	Good	0.200
Lespedeza	Good	0.100
Lovegrass	Good	0.150

<sup>&</sup>lt;sup>1</sup>Does not include effects of submergence.

From USDA (1980), p. 248.

TAUCF(KL,L) Critical shear for hydraulic erosion in this area  $[N/m^2 \text{ or } lbf/ft^2]$ .

WIDFX(KL,L) Width of flow in the fixed-condition reach [m or ft].

The entire group of lines F01-F10 are input for both natural-flow (KL=1) and furrowed-flow (KL=2) geometries. Lines F07-F10 are repeated for ITOCH>0 (F01). The whole data group F01-F10 is not read for the furrowed case (KL=2) only if no management operations have been specified in the data (on line set E) that produce a furrow depth greater than 5 cm (2 in). That logically implies an untilled catchment. The user must be consistent in this regard.

F11: IFOUTL, AV, BV, CV, CQ, EQ, ZQ, RLOSS

Line F11 contains farm pond data used in calculating both the hydrograph and the sediment-concentration distribution in the breakpoint model (IHOP=2) when a farm pond is present (IFPOND>0). For daily simulations (IHOP=1), these values may be blank or zero; lumped pond effects on sediment production must be reflected in parameter PRF on line G04. Line F11 may be blank if a farm pond is not present.

Line F11 contains three parameters that describe the storage shape of the pond according to the following equation:

 $Area = AV + BV(h)^{CV}$ 

where h is pond depth [m or ft], and AV, BV, CV are shape parameters described below.

Line F11 also contains three parameters that typically describe the outlet-rating relation between depth and discharge:

 $Q = CQ(h - ZQ)^{EQ}$ 

where Q is the discharge  $[m^3/s \text{ or } ft^3/s]$ , and CQ, ZQ, EQ are discharge rating parameters (described below).

For IFOUTL = 2, CQ is the orifice diameter, as described below. See volume I for detailed description of the Opus pond component.

IFOUTL Flag indicating whether the pond outlet is given by rating (=1) or by an orifice diameter (=2).

This determines the interpretation of parameter CO.

Conceptual constant base area in the pond area-ΑV depth relation  $[m^2 \text{ or } ft^2]$ . (IFPOND=1) Coefficient in the pond area-depth relation. BV represents the surface area of the pond (less the value AV) at water depth of 1 m. (IFPOND=1) CV Can assume two alternate definitions, depending on the value of IFPOND: IFPOND=1 CV is the exponent of depth in the pond area-depth relation. IFPOND=2 CV is the slope of the inner face of the impoundment dam (H:V) because this option specifies the use of pond dam, channel, and field slope to geometrically calculate the pond depth-area relation. In this case parameters AV and BV may be used to represent the clopes of the land and channel, respectively, adjacent to the pond. Appropriate default values from the natural hydrologic topography (lines F) are selected if these two parameters are zero. CQ IFOUTL=1: Outlet discharge rating coefficient for the pond outflow [m³/min or ft³/ min], or Diameter [mm or in] of outlet orifice. IFOUTL=2: EQ Outlet discharge rating exponent for pond outflow. Depth in pond below which there is no outflow [m ZO or ft]. This parameter has the same meaning for IFOUTL=1 or 2. RLOSS Loss rate from pond bottom; it should be the topsoil saturated conductivity, modified to reflect any pond sealing treatment [mm/hr or For RLOSS=0 or negative, a default of half RC(1) is used.

# Group G. Sediment and Erosion Data

The group-G parameters describe attributes of field soil erosion/sedimentation. Data line set G01-G04 must be present in the parameter file, even if erosion is not simulated (IFSED=0 on line A03).

G01: NPS

Number of particle-size classes into which the sediment particle distribution will be divided for simulation. If NPS=0 and IFSED>0, Opus computes five default particle classes based on the PCLAY, PSILT, and PSAND fractions for the uppermost soil layer described on line CO2. Maximum value is 5. Fractions (FRASN, etc.) are used to characterize aggregated particles.

There must be NPS (or 1, if NPS=0) sets of G02 prompts and lines. J is 1 to NPS.

- DPS(J) Mean effective particle diameter for class J [mm or in].
- RHOP(J) Mean effective specific gravity of particle-size class J.
- PROSL(J) Proportion of the total weight of sediment whose particles are within size class J.
- FRASN(J) Fraction of size class J made up of sand-sized particles.
- FRASL(J) Fraction of size class J made up of silt-sized primary particles.
- FRACL(J) Fraction of size class J made up of clay-sized primary particles.
- FRORG(J) Fraction of size class J made up of organic matter.

G03: SSCLY, SSSLT, SSSND, SSORG

Line G03 has basic specific surface area data for the fractions of sand, silt, clay, and organic matter in surface soil, if known. Default values  $(m^2/m^3)$  are used if negative numbers are read.

- SSCLY Effective specific surface area of particles in the clay-sized fraction  $[m^3/m^2 \text{ or } ft^3/ft^2]$ . Default = 20.
- SSSLT Effective specific surface area of particles in the silt-sized fraction  $[m^3/m^2 \text{ or } ft^3/ft^2]$ . Default = 4.

SSSND Effective specific surface area of particles in the sand-sized fraction  $[m^3/m^2 \text{ or } ft^3/ft^2]$ . Default = 0.05.

SSORG Effective specific surface area of organic matter in the soil  $[m^3/m^2 \text{ or } ft^3/ft^2]$ . Default = 1000.

G04: ASLK, PRF, EKT(1), EKT(2), EKT(3)

ASLK Mean USLE soil K erodibility factor [t-hr/MJ/mm or tn-ac-hr/100 ac-ft/tonf/in] (see Foster et al. 1981).

PRF USLE cropping practice factor (P). This parameter is used for only IHOP=1, when the MUSLE method is used for estimates of erosion. It must also represent the effect of impoundments, because hydraulic pond routing is not feasible in that option. See volume I for detailed description of the MUSLE option.

- EKT(1) A relative erodibility factor in the shear-based calculation for splash erosion (IHOP = 2), for element 1 (distributed flow). [The units are complicated because of empirical exponents, but they are roughly s/m or s/(ft\*32)]. The metric EKT value is the English EKT\*0.0844. Default value, invoked when a negative number is input, is 0.08679 [metric].
- EKT(2) A relative erodibility factor in the shear-based channel or concentrated flow erosion relation (IHOP=2), for element 2. The units are as for EKT(1): metric = English\*0.0844. Default value, used when a negative number is input, is 0.246 times the input USLK for the unfurrowed plane [metric].
- EKT(3) Analogous to EKT(2), above, for element 3 (the second channel), if any. Setting EKT(3) to zero when ITOCH is positive implies a lined or non-erodible channel. Default value, used when a negative number is input, is 0.246 times the input USLK [metric] for the unfurrowed case.

#### OPUS METEOROLOGY FILE

The Opus meteorology file always contains weather statistical parameters and may also contain rainfall data or recorded monthly means, from which daily weather data are generated. The climate information is needed to estimate daily potential evapotranspiration and temperature of soil and plant environment and radiation for plant photosynthesis. The method for generating a statistically authentic weather record (daily randomized maximum and minimum temperatures, radiation, and rainfall) is taken from the method of Richardson (1981) as incorporated in the WGEN model (Richardson and Wright 1984). For this model, geographically mean values for each of the necessary parameters have been mapped for the continental United States, and the resulting parameter maps are provided here (app. D, part 2). A more locally accurate option is to read actual monthly mean values for weather data, and to constrain the stochastic sequence to reproduce those The optional monthly mean values of local data include daily maximum and minimum temperatures (averaged for each month) and monthly mean incident solar radiation. The user may choose to use monthly mean daily pan evaporation instead of reading radiation and calculating daily potential evapotranspiration by the Penman-Monteith formula (see vol. I).

If available, actual daily radiation and maximum and minimum temperatures may be read in, obviating Opus' predictions of these variables (see "Actual Data File" section).

The program uses the monthly means and amplitude parameters for maximum temperature, minimum temperature, and daily radiation, and from these constructs a smooth Fourier series curve to estimate a mean value for each day of the year for each. If IFRAN (line A03) is 0, these mean daily values are used throughout the simulation. If IFRAN is 1, the other map parameters of standard deviations and cross correlations are used with a random-number generator and probabilistic model to generate a stochastic sequence of daily temperatures and potential evapotranspiration. The stochastic model includes the correlation of these weather values with the rainfall occurrence pattern.

Parameter maps and a table of parameter values for many U.S. cities are given in appendix D. For most purposes, parameter values from the table may be used for nearby locations, or map interpolation may be used when climate and topography are not dissimilar between interpolating locations. For metric input, table 14 contains conversion factors for the English units of the maps. Because of imbedded relationships, <a href="English/metric">English/metric</a> conversions are not a trivial task.

Table 14. Conversion of weather-generating parameters in appendix  $\mathbf{D}^1$  from English to metric units

Parameter	Map/Table units	Conversion <sup>2</sup>
TXMD TXMW TN	°F °F °F	$TXMD_{c} = (TXMC_{f}-32)*5/9$ $TXMW_{c} = (TXMW_{f}-32)*5/9$ $TN_{c} = (TN_{f}-32)*5/9$
ATX AMTN	F° F°	$ATX_{c} = ATX_{f} *5/9$ $AMTN_{c} = AMTN_{f} *5/9$
CVTX ACVTX CVTN ACVTN	F°/°F F°/°F F°/°F	$\begin{array}{lll} \text{CVTX}_{\text{m}} &=& \text{CVTX}_{\text{e}} * \text{TXMD}_{\text{f}} / \left(\text{TXMD}_{\text{f}} - 32\right) \\ \text{ACVTX}_{\text{m}} &=& \text{ACVTX}_{\text{e}} * \text{TXMD}_{\text{f}} / \left(\text{TXMD}_{\text{f}} - 32\right) \\ \text{CVTN}_{\text{m}} &=& \text{CVTN}_{\text{e}} * \text{TXMD}_{\text{f}} / \left(\text{TXMD}_{\text{f}} - 32\right) \\ \text{ACVTN}_{\text{m}} &=& \text{ACVTN}_{\text{e}} * \text{TXMD}_{\text{f}} / \left(\text{TXMD}_{\text{f}} - 32\right) \end{array}$
BETAG RI	in in/hr	$BETAG_{m} = BETAG_{e}*25.4$ $RI_{m} = RI_{e}*25.4$

<sup>1</sup>This table is provided for users of metric input units who want to utilize the weather data provided in app. D. Note that RMD, AR, RMW, PRW2, PRW1, and ALPHG need no conversion. If monthly temperature values are read, (IFT>0) TAMX and TAMN values must be converted as for TXMD.

<sup>2</sup>Subscripts f and c after each variable name indicate Fahrenheit or Centigrade units. Subscripts m and e represent metric and English units.

The meteorology data consist of two parts: group-H data (statistical information on climate) and group-I/II data (optional rainfall input of either daily (I) or breakpoint (II) form). Group H is the last of the templated input that requires a three-digit line ID at the end of the line. The rainfall data that follow are not in template form and have no such ID's; they are described in detail later. Table 15 describes the formats of the meteorological input lines.

The first line is identifying data. This information is echoed to output files for run-identification purposes. This feature has been added for users making multiple runs and manipulating many input and output data. Experience has demonstrated the ease with which mismatches of watershed and rainfall data may occur. The rainfall-identification line on output files serves the user as either a warning or a positive reinforcement.

Table 15. Formats for meterologic input lines

Line	Format
H01	(a77,a3)
H02-H13	(12f6.0,t78,a3)
101	(i5,5x,10f5.2)
II01	(i8)
II02	(3i8)
II03	(10f8.0)

# Group H. Climate Statistics

A sample set of climate statistics is illustrated in figure 19. This block of data is the required basis of the meteorology file.

HO1: TITLEM Line of title data, echoed to output files for run identification.

HO2: TXMD, ATX, CVTX, ACVTX, TXMW

Line H02 contains parameters neccessary to describe the annual trend and variation of daily maximum temperature, using a first-order Fourier series. This line can be blank or zero only if actual daily values are being read in.

TXMD	Annual mean dry-day maximum temperature [°C or °F].
ATX	Amplitude of annual variation of TXMD [C° or F°].
CVTX	Coefficient of variation of daily maximum temperature [C $^{\circ}$ / $^{\circ}$ C or F $^{\circ}$ / $^{\circ}$ F].
ACVTX	Amplitude of annual variation of CVTX (assumed to be in phase with daily maximum) [C°/°C or $F^\circ/^\circ F$ ].
TXMW	Mean wet-day maximum temperature [°C or °F].

HO3: TN, AMTN, CVTN, ACVTN

Line H03 contains parameters that correspond to the first four parameters of H02 except that they are for daily minimum

```
********
*********
  METEOROLOGICAL DATA
                              * *
*********
 TITLE: Enter one line of identifying information
Bkpt data 73-75, WATKINSVILLE P3
                                                 H01
    ATX CVTX ACVTX TXMW
 TXMD
 73.0 18.0 0.11 -.075 71.5
                                                 H02
  TN AMTN CVTN ACVTN
 51.5 18.5 0.16 -.13
                                                 H<sub>0</sub>3
 RMD
     AR
        RMW SEED
450.0 175.0 269.0
                                                 H04
 0.502 0.490 0.433 0.426 0.462 0.473 0.548 0.437 0.490 0.561 0.385 0.468
                                                 H<sub>0</sub>5
 0.261 0.291 0.286 0.247 0.188 0.258 0.318 0.208 0.163 0.119 0.207 0.258
                                                 H06
  _____
   The monthly ALFG and BETG values may be
   blank if daily rainfall is not being
   generated (IFGEN on record A04 is not 2)
 0.718 \ 0.727 \ 0.689 \ 0.723 \ 0.728 \ 0.765 \ 0.681 \ 0.711 \ 0.661 \ 0.622 \ 0.668 \ 0.743
                                                 H07
 0.566 0.618 0.734 0.717 0.613 0.453 0.571 0.561 0.671 0.627 0.621 0.589
                                                 H08
                       RI RI RI RI
1.66 1.18 1.46 1.29
         RI
            RI RI RI
  RI
     RI
                                   RI
                                       RI
                                            RI
 0.92 0.60 1.03 0.91 1.21 1.17
                                       1.35
                                                 H09
  _____
   The monthly temp values may be
   blank if IFT on record A04 is 0
  ______
 52.4
                                                 H10
 TAMN
 37.3 38.4 42.5 50.2 60.0 67.5 70.7 69.8 64.3 52.4 41.5 37.1
                                                 H11
  ______
   The monthly radiation values may be
   blank if IFT on record A04 is <2
  -----
  RA RA RA RA RA RA
                            RA
                                RA
                                    RA
                                        RA
218.0 290.0 380.0 488.0 533.0 562.0 532.0 508.0 416.0 344.0 268.0 211.0
                                                 H12
  Pan coefficient can be blank unless radiation values
 contain evap pan data (IPAN on record A03 is 1)
 TP05 TP6 COEFF
 2.38 4.88 1.2
                                                 Н13
[rainfall block (daily or breakpoint) inserted here if IFGEN=0 on A04]
```

Figure 19. Sample meteorology data block (first part of meteorology file).

temperatures. This line may be blank or zero only if actual daily data are being read in.

TN Annual mean dry-day minimum temperature [°C or °F].

AMTN Amplitude of annual variation of TN [C° or F°].

CVTN Coefficient of variation of daily minimum temperature [C°/°C or F°/°F].

ACVTN Amplitude of annual variation of CVTN [C°/°C or  $F^{\circ}/^{\circ}F$ ].

HO4: RMD, AR, RMW, SEED

Line H04 contains daily-radiation statistical parameters, plus a seed for the random-number generator used in the stochastic model computations. This line can be blank or zero only if actual daily radiation data are being read in.

RMD Annual mean dry-day net solar radiation [ly].

AR Amplitude of annual variation of daily net solar radiation, R [ly].

PMW Annual mean wet-day net solar radiation [ly].

Optional seed value for random number generation.

Varying the seed between simulations allows
stochastic sequence variation for runs of the
same dates. A fixed seed will reproduce the same
sequence in each run. SEED can take values
between 1 and 999.

H05: PRW(2,M) Probability of a wet day following a wet day for each month [M=1 to 12]

HO6: PRW(1,M) Probability of a wet day following a dry day for each month [M=1 to 12]

Lines H07 and H08 are parameters for monthly distribution of rainfall amounts on wet days. A gamma distribution function is assumed. These parameters are used only for IHOP=1 and IFGEN=1 (generating daily rainfall); the lines may otherwise be blank or zeros.

H07: ALFG(M) Gamma-distribution shape parameter for statistical description of daily rainfall amounts on wet days, by month, M=1 to 12.

HO8: BETG(M) Gamma-distribution scale parameter for statistical description of daily rainfall amounts on wet days, by month, M=1 to 12.

H09: RI(M)

Line H09 contains rainfall-intensity data, used in daily hydrology (IHOP=1) estimates of runoff peak. This line can be blank or zero only if IHOP=2.

RI(M) Peak 30-min rainfall intensity for months M=1 to 12 [mm/hr or in/hr].

The data on remaining group-H lines are optional; use of these lines depends on the value of IFT (line A04).

H10: TAMX(M) Local mean daily maximum temperatures for each month M=1 to 12 [°C or °F]. These values may be blanks or zeros if IFT=0.

H11: TAMN(M) Local mean daily minimum temperatures for each month M=1 to 12 [°C or °F]. These values may be blanks or zeros if IFT=0.

H12: RA(M)

(a) Local mean daily net radiation for each month M=1 to 12 [ly]. (b) Optionally, if IPAN (line A03) is positive, RA represents the monthly mean daily pan evaporation [in or mm], which is multiplied by COEFF to produce RA values. These values may be blanks or zeros for IFT=0 or 1.

H13: TP05, TP6, COEFF

TP05 30-min rainfall depth [mm or in] with a 10-yr return period. Used in estimating runoff peaks if IHOP=1; may be zero or blank for IHOP=2 runs.

TP6 6-hr rainfall depth [mm or in] with 10-yr return period; used like TP05.

COEFF Pan evaporation-to-crop ET coefficient; used when pan data are used instead of solar radiation (IPAN=1 on line A03).

### Rainfall Data

If running either the breakpoint option (IHOP=2) or the daily option without rainfall generation (IHOP=1 and IFGEN=0), then rainfall data must be contained here in the meteorology file. The template format ceases at this point, because the template is

an inconvenience for the amount of input data that may follow. The line-identification system also ceases for the same reason. Lines are described in terms of identifying codes, e.g. I02, but these codes do not appear on the data lines as they must with template data. The format of the rainfall data (table 15) depends on whether it is daily (type I) or breakpoint (type II).

# Group I. Daily Rainfall Data

Daily rainfall data are read a year at a time, so they must be in 1-year blocks. If a run is to start or end at midyear (which is often the case), the rest of the year must be filled in with either estimated data or zeros.

Figure 20 illustrates a daily-rainfall block containing 1 year of daily rainfall. The year must be on the first line of each year's rainfall data. Opus does not assume that the first data year is the first year of simulation; instead, Opus reads through the rain data until the specified start year (from line A02) is reached. As with the new title line, this feature was added as a result of experience in making mistakes with a program that does not read the rainfall year. An identifying number (1-37) ends each line in the sample set. This number is not read by Opus, but it is a useful notation for the user in locating data for a particular day and in checking that a full year's data have been entered. Formats are given above in table 15.

### IO1: IYR, R(I)

- Two-digit year of the first year of rainfall data; need not be present on any other lines, although it is helpful to the user if noted on at least the first data line of each year.
- R(I) Total amount of daily rainfall [mm or in] for day I; listed 10 per line. As discussed above, full 37-line sets must be present for each year in the simulation period.

### Group II. Breakpoint Rainfall Data

For the breakpoint hydrology option (IHOP=2), the rain data consist of a variable number of stormwise lines of accumulated depth and time data pairs. A storm is defined as starting after a 180-minute hiatus with no rain accumulation, but the input file may be written with any other storm definition. Opus redefines storms internally if the user's data hiatus criterion is different.

*****	****	****	****	*****	****	****	****	****	*		
*****	****	****	****	****	****	****	****	****	*		
**								*	*		
**	R A	INE	AL	L I	TAC	A		*	*		
**								*	*		
******	****	*****	****	****	****	****	****	****	*		
******	****	****	****	****	****	****	****	****	*		
72	0	0	0	0	0	0	0	0	0	0	1
72	0	0	0	0	0	0	0	0	0	0	2
72	0	0	0	0	0	0	0	0	0	0	3
72	0	0	0	0	0	0	0	0	0	0	4
72	0	0	0	0	0	0	0	0	0	0	5
72	0	0	0	0	0	0	0	0	0	0	6
72	0	0	0	0	0	0	0	0	0	0	7
72	0	0	0	0	0	0	0	0	0	0	8
72	0	0	0	0	0	0	0	0	0	0	9
72	0	0	0	0	0	0	0	0	0	0	10
72	0	0	0	0	0	0	0	0	0	0	11
72	0	0	0	0	0	0	0	0	0	0	12
72	0	0	0	0	0	0	0	0	0	0	13
72	0	0	0	0	0	0	0	0	0	0	14
72	0	0	0	U	0	0	0	0	0	0	15
72	0	0	0	0	0	0	0	0	0	0	16
72	0	0	0	0	0	0	0	0	0	0	17
72	0	0	0	0	0	0	0	0	0	0	18
72	0	0	0	1.20	.30	0	.20	.04	0	0	19
72	0	0	0	0	0	0	0	0	0	0	20
72	0	0	0	0	0	0	0	0	0	.79	21
72	.18	0	.45	0	0	0	0	0	0	0	22
72	0	.32	.43	0	0	0	0	0	0	0	23
72	0	0	0	0	0	.68	0	0	0	0	24
72	0	0	0	0	0	0	0	1.94	0	0	25
72	0	0	0	0	0	0	0	0	0	0	26
72	.05	.23	0	0	0	0	0	0	0	0	27
72	0	0	0	.50	0	0	0	0	.25	0	28
72	0	0	0	0	0	0	.07	0	0	0	29
72	0	0	0	0	0	0	.29	0	0	0	30
72	1.27	0	.09	0	0	0	0	.10	0	0	31
72	0	.97	0	0	0	0	0	.45	0	0	32
72	0	0	0	1.02	0	0	0	0	0	0	33
72	.85	0	0	0	.18	0	0	0	0	0	34
72	.61	.24	0	0	0	0	0	0	2.99	1.60	35
72	0	0	0	0	.21	1.80	.92	0	0	0	36
72	0	0	0	0	0	.80	0	0	0	0	37

Figure 20. Sample of data block for daily rainfall (option IHOP=1, second part of meteorology file).

Figure 21 exemplifies the breakpoint rainfall data that must be appended to the meteorology template when IHOP=2.

IIO1: IFJULB Flag indicating that the dates following have Julian-date format. Format I8.

IFJULB=0 Not Julian; dates are of the form mmdd (e.g., 0228 for February 28).

IFJULB=1 Julian dates, of the form jjj (e.g., 059 for February 28).

																							_		
*****	*****	* * *	* * *	***	**	***	**:	**:	**:	* *	* *	* *	* *	* * *	* *	* *	* *	* *							
*****	*****	***	***	***	**	* * *	**	**;	**:	* *	* *	* *	* *	**	* *	* *	* *	* *							
**																		* *							
**	I	RA	I	N F	A	L	L	I	) 2	A	Τ.	A						* *							
* *																		* *							
*****	****	***	***	***	**	***	**	**:	**:	* *	* *	* *	* *	* *	* *	* *	* *	* *							
*****	*****	***	***	***	* *	***	**	**:	**:	* *	* *	* *	* *	**	* *	* *	**	* *							
0																									
72	7	2			5			0			0.	45													
0.00	957.0	0.0		0.1	5	96	0.0	00			0.	40		96	4.	00			0.44	970	0.00	)	0.45	992	.00
72	7	2			5			0			0.	75													
0.00	1140.0	0.0		0.4	5	119	6.0	00			0.	60	1	20	0.	00	1		0.72	1208	3.00	)	0.75	1227	.00
72	7	3			5			0			0.	30													
0.00	1231.0	0.0		0.1	0	123	3.0	00			0.	25	1	123	5.	00	)		0.29	1238	3.00	)	0.30	1240	0.00
72	7	5			4			0			0.	20													
0.00	13.0	0.0		0.0	5	1	5.0	00			0.	15	)	3	5.	00	)		0.20	1440	0.00	)			
72	7	6			2			0			0.	04													
0.00	65.	00		0.0	4	9	7.	00																	
72	7:	28			8			0			0.	79	)												
0.00	1198.	00		0.1	5	120	0.	00			0.	25	]	L20	3.	0.0	)		0.27	120	6.00	)	0.45	1210	00.0
0.73	1215.	0 0		0.7	5	123	0.	00			0.	79	) ]	125	0.	00	)								

Figure 21. Sample of data block for breakpoint rainfall (option IHOP=2, second part of meteorology file).

Lines II02-II03 make up a storm rainfall set and are repeated for all storms in the simulation period. Stormwise information consists of two or more data lines. Each storm has an II02 line and then as many II03 lines as necessary to describe all the breakpoints in the storm. The II02 line contains only stormsummary data. Formats are given in table 15.

IIO2: JYR, NDAY, NP. Format 3I8 (right justified)

JYR Two-digit year.

NDAY Day of year, either mmdd or jjj, depending on IFJULB above.

NP Number of breakpoints (time-depth pairs) in storm (maximum allowed is 200).

II03: BP(I), T(I)

There must be NP pairs of RP and T data pairs, and no more than five pairs per line. Format is 10f8.0.

- BP (I) Depth of cumulative storm rainfall. If the first point is 0.0, the last is total storm depth.
- T(I) Time of breakpoint reading [min since midnight of storm-start day]; if greater than 1440, storm has crossed midnight.

#### ACTUAL DATA FILE

Opus includes an option for the input of several daily variables that may be used in lieu of simulated values. The data that may be included on this file are "actual" (measured) daily runoff, peak runoff rate, erosivity index, sediment outflow, maximum and minimum temperatures, and measured incident solar radiation.

Many combinations of these data may be present and/or used from this file. This actual hydrology data is usable only by the daily hydrology option, except temperature and radiation data, which can be used by either hydrology option. The reading of measured data on this file obviates Opus simulation of any of these variables.

Figure 22 shows a portion of a sample actual data file.

Group J. Actual Data

JO1: TITLEA Line of identifying data, as with all input files, to be written on all output files.

JO2: IFJUL, IRLRO, IRLQP, IRLEI, IRLSD, IRLTM, IRLRD

Line J02 contains a set of flags, each located above its respective column of measured data, indicating whether or not the appropriate data are to be read from that file in the simulation. Thus the user does not need to remove a column of data to activate Opus simulation of a process; the flag need only be changed to zero. The input format is (7i8). The flags and their meanings are summarized as follows:

IFJUL Flag indicating use of Julian dates.

IFJUL=0 Date is given in the form of mmddyy.

IFJUL=1 Date is given in the form of yyjjj, in which jjj is the Julian day.

Example:

<u>Date</u> <u>IFJUL=0</u> <u>IFJUL=1</u> Jan. 3, 1988 010388 88003

IRLRO Flag indicating if daily runoff is to be read from the following data lines: 0=no, 1=yes

IRLOP Flag indicating if peak discharge data are to be read from the following data line: 0=no, 1=yes.

****RAINFALL				EATHER DAT		1		•
0	0.0	1	1	0	0	1	100	1
061888		0.00	0.00			33.0 33.0	18.0	550.0 550.0
061988	0.0	0.00	0.00				18.0	
062088	3.8	0.02	0.11			34.0	17.3	568.8
062188	0.3	0.00	0.00			33.8	18.1 18.9	375.2 442.2
062288 062388	8.1	0.00	0.00			33.6 32.6	15.2	521.0
062388	0.0	0.04	0.00			37.8	15.2	657.3
062488	7.1	0.00	0.00			33.2	19.2	289.2
062688	0.0	0.00	0.00			30.7	18.5	650.1
062788	1.0	0.00	0.00			30.0	17.3	671.6
062888	4.8	0.00	0.00			31.2	15.8	657.3
062988	9.7	0.00	0.00			28.7	18.2	411.1
063088	0.0	0.00	0.00			26.6	17.9	690.7
070188	3.2	0.04	0.06			29.6	16.7	721.8
070288	0.0	0.00	0.00			32.2	13.9	475.6
070388	0.0	0.00	0.00			34.5	13.7	592.7
070488	0.0	0.00	0.00			33.2	16.2	523.4
070588	3.5	0.05	0.04			33.1	15.4	588.0
070688	0.0	0.00	0.00			33.1	18.8	530.6
070788	14.8	0.85	4.98			28.4	18.6	487.6
070888	3.3	0.00	0.00			29.1	16.8	401.5
070988	0.3	0.00	0.00			28.1	15.1	640.5
071088	9.7	0.01	0.19			28.9	14.2	561.7
071188	0.0	0.00	0.00			29.7	13.1	501.9
071288	4.8	0.00	0.00			33.9	13.9	518.6
071388 071488	0.0	0.00	0.00			33.6 32.6	18.3	676.4 425.4
071588	7.3	0.00	0.00			29.7	19.8 16.9	423.4
071688	0.0	0.00	0.23			31.3	15.5	537.8
071788	0.0	0.00	0.00			28.9	16.7	544.9
071888	1.3	0.00	0.00			28.7	14.8	585.6
071988	4.3	0.00	0.00			21.9	12.6	382.4
072088	10.0	0.03	0.14			25.1	9.6	676.4
072188	0.0	0.00	0.00			33.6	10.3	671.6
072288	16.8	0.09	0.10			32.2	13.5	611.9
072388	0.0	0.00	0.00			24.6	13.4	449.3
072488	0.0	0.00	0.00			31.9	13.7	657.3
072588	11.9	0.03	0.05			32.6	13.6	396.7
072688	0.0	0.00	0.00			31.5	14.5	559.3
072788	8.1	0.03	0.79			32.1	14.9	533.0
072888	0.0	0.00	0.00			29.4	16.9	286.8
072988	1.3	0.76	6.00			31.8	18.1	511.5
073088	0.0	0.00	0.00			31.4	16.5	621.4
073188	0.0	0.00	0.00			31.5	17.2	403.9
080188	0.0	0.00	0.00			34.0	14.8	468.5
080288 080388	3.3	0.00	0.00			34.2	15.2	535.4
000300	14.1	0.30	0.34			28.2	17.3	427.8

Figure 22. Sample actual data file.

IRLEI Flag indicating if storm erosivity index (EI) data are to be read from the following data lines: 0=no, 1=yes.

IRLSD Flag indicating if measured sediment-outflow total is to be read from the following data lines: 0=no, 1=yes.

IRLTM Flag indicating if daily values of both maximum and minimum temperatures are to be read from the following data lines: 0=no, 1=yes. Note that both must be present. Note also that for this and for measured radiation, data must be given for every day of the simulation period. For data on runoff and sediment (covered by the first five flag parameters), the data need be given only on days with rainfall or runoff events.

IRLRAD Flag indicating if values of daily incident radiation are to be read from the following measured data file: 0=no, 1=yes.

J03: IRLDA, ACTRO, ACTQP, ACTEI, ACTSD, TCMX, TCMN, RD
The format of line J03 is (i8, 7f8.0).

IRLDA Date, either as a year and Julian day [yyjjj] or as a calendar date [mmddyy], depending on the value of IFJUL, discussed above. The dates must be in chronological order.

ACTRO Measured runoff on day IRLDA [mm or in].

ACTQP Measured value of peak runoff rate [mm/hr or in/hr].

ACTEI Measured value of rainfall EI (erosivity index) for day IRLDA [units of MJ-mm/ha/hr or 100ft-tn-in/ac/hr] (see Foster et al. 1981). This data item is unlikely to be available unless breakpoint rainfall data are available to make possible such computations to supplement daily data.

ACTSD Measured sediment in runoff for day IRLDA [kg/ha or lb/ac].

TCMX Measured value of daily maximum temperature [°C or °F].

TCMN Measured value of daily minimum temperature [°C or °F].

RAD Measured value of daily incident solar radiation [ly/day].

Any data ACTRO through ACTSD can be read occasionally (when storms occur); i.e., a line of data is necessary on only the days when an event occurs. If actual values of temperature and/or radiation are used, a data line is required for every day within the simulation.

#### OPUS OUTPUT OPTIONS

Opus offers several options for output data, ranging from a simple result summary to massive, detailed information. The extent and frequency of output are specified by the user through interactive file selection at the start of a run, and through the input parameters IFWRDA, INTSP, THRESH, and IFOUT. The user should check all these values before beginning a run, and the information from the user at the run start should be consistent with these parameter values.

The four output files are a main (standard) file, an optional surface file, a subsurface file, and a plant file. An optional screen output tracks the simulation progress.

## Screen Output

Parameter IFWRDA (line A03) governs writing to the screen (or log file, if a batch run) during the simulation. All that is printed is the Julian date of the day being simulated (yyjjj), so the user can see how the run is progressing.

# File Output

Standard Output. This output includes summary information based on the input data, including a summary of field topography, description of crops, and information on soil hydrologic parameters and particle size distribution. Any detected errors in parameter input are flagged here. Errors include warnings (the simulation proceeds, but the user is notified that a parameter value is questioned), changes (an unreasonable input value has been changed to something reasonable), and stops (the error causes an abrupt program stop). A common error is miscounting by the user when adding or deleting data lines; the program writes the numbered line expected and the contents of columns 78-80 of the line encountered.

The output soil-layer parameters include both read-in and synthesized (default) information, and should be checked for reasonableness of default values. Compare these values to those in table 6; if the defaults are outside the recommended ranges for the type of soil being described, a value can be input to override the default. Figure 23 is a sample of the first part of the standard output file, in which the input data are described.

The simulation-results section of the standard output is controlled by parameter IFOUT (line A03). If IFOUT=0, only an annual monthly result summary is produced, an example of which is

### O p u s simulation run

# ( BREAKPOINT PRECIPITATION VALUES)

PARAMETER TITLE:

WATKINSVILLE, GA., Catchment P-3 EPA management data

73-75 (length of precip record Breakpoint run

PRECIP TITLE:

Bkpt data 73-75, WATKINSVILLE P3

CROP	MAX. LAI	MATURITY DEG.C- DAYS	MATTER	T. DRY ,KG/HA: YIELD				GROWTH	SPECIF. TOPS WT. G/CM2
win.rye soybean Barley	4.00	2000.0	10087.	2578.	609.6 609.6 609.6	0.60		61.	0.147 0.229 0.202
		COMPOSED PLANE(S)		•	EACH WITH C	CHANNEL	OF 79	. 9	
OF 209 FURROWED	6.35SQ FIELD	.M. EACH.	TOTAL OF 1	AREA= :	12586.2 SQ. EACH WITH C				9
OF 629 OMETRIC P / EROS	3.09SQ OND PA ION CO	.M. EACH.	TOTAL A	AREA= : 2000 RE:	12586.2 SQ. 0. 2.0	000 46.	772 2.0		

- 4 SOIL HORIZONS DIVIDED INTO 17 COMPUTATIONAL LAYERS
- 11 LAYERS USED FOR SOLUTE TRANSPORT CALCULATIONS (IPRK).
- 10 IS LAYER BELOW MAX ROOTING DEPTH (ILBR)

HOR COM NUT DEPTH SAT CON PBUB ALAM THR THS INIT POT THETA NO3 (KG/HA)  1 1 2 10. 0.2328 -124.5 0.3448D 0.1112 0.3300 -1668. 0.2000 11.72 1 2 2 40. 0.2328 -124.5 0.3448D 0.1112 0.3300 -1668. 0.2000 35.17	
1 1 2 10. 0.2328 -124.5 0.3448D 0.1112 0.3300 -1668. 0.2000 11.72	
	)
1 2 2 40. 0.2328 -124.5 0.3448D 0.1112 0.3300 -1668. 0.2000 35.17	26
	79
1 3 2 96. 0.2328 -124.5 0.3448D 0.1112 0.3300 -1668. 0.2000 65.90	02
1 4 2 152. 0.2328 -124.5 0.3448D 0.1112 0.3300 -1668. 0.2000 65.90	02
2 5L 2 229. 0.1270 -127.0 0.1976D 0.2041 0.3500 -1668. 0.2915 66.63	37
2 6 3 305. 0.1270 -127.0 0.1976D 0.2041 0.3500 -1668. 0.2915 66.63	37
3 7 3 406. 0.1317D -165.6D 0.2102D 0.2425 0.4000 -1668. 0.3389 20.59	97
3 8 3 508. 0.1317D -165.6D 0.2102D 0.2425 0.4000 -1668. 0.3389 20.59	97
3 9 3 610. 0.1317D -165.6D 0.2102D 0.2425 0.4000 -1668. 0.3389 20.59	97
4 10 3 762. 0.4123D -127.6D 0.3057D 0.2580 0.4500 -1668. 0.3450 12.35	58
4 11 3 953. 0.4123D -127.6D 0.3057D 0.2580 0.4500 -1668. 0.3450 15.44	48
NOTE: D BESIDE VALUE INDICATES CALCULATED DEFAULT	
L Beside layer number indicates flow limiting layer	

	PARTICLE	SIZE D	ISTRIBU	JTION DAT	A, IN ORDI	ER OF	TRANSPOR	TABILITY
CLASS	EQUIV	SIZE	SPEC.	PROPN.	FRACTION	COMPO	SITION	VSETL
	DIAM	(MM)	GRAV.	IN SOIL	SAND	SILT	CLAY	(MM/SEC)
1	0.0020	0.0020	2.60	0.044	0.000	0.000	1.000	0.509E-04
2	0.0100	0.0100	2.65	0.020	0.000	1.000	0.000	0.131E-02
3	0.0300	0.0209	1.80	0.170	0.000	0.528	0.472	0.572E-02
4	0.2000	0.2000	2.65	0.252	1.000	0.000	0.000	0.522
5	0.3400	0.2049	1.60	0.514	0.755	0.157	0.088	0.548

Figure 23. Sample of standard output initial summary.

shown in figure 24. If the nutrient simulation option is not selected, the annual summary is similar to that shown in figure 24 except that the last two columns (on nitrogen leached and in runoff) are omitted. The second set of monthly columns report the history of crop stress due to N and water deficits. The data on stress are given in terms of stress-days, with a day during which the respective relative stress is 0.8 counting as 0.8.

IFOUT=1 produces a more detailed standard output file, a sample of which is shown in figure 25. The simulation start and end dates are noted. A line of output is generated for each rain event, summarizing hydrologic results. All management actions are indicated. This output option is recommended for most applications, but it may be omitted for very long runs.

Optional Detailed Surface-Hydrology Results. Optional surface-hydrology output is governed by parameter THRESH (A02). This file contains detailed storm information, including rainfall, infiltration, and runoff hydrographs. It may also contain information about runoff of nutrients and pesticides if those options are being simulated. Figure 26 is a sample of hydrology file output for one event.

Optional Detailed Subsurface-Hydrology Results. Optional subsurface output is governed by parameter INTSP (line A02). Like the detailed surface file, this subsurface file always contains information about soil hydrology and may contain information about nutrients and pesticides, depending on options being simulated. Figure 27 is a sample subsurface output, representing the report for one day, when both IFNUT and IFPEST are positive. At the beginning of this output file (not shown in this figure) is a table for each soil horizon, showing the soil hydraulic relations  $\theta\left(h\right)$  and  $k_{r}(h)$ .

Optional Crop Status File Output. From the interactive run start, this option can be selected. The data produced (as shown in fig. 28) include date, root depth and ALAI data for up to four crops, total leaf area index, total relative soil cover, and standing dry matter. The three columns allowed for concurrent crop information are reset and the respective crop numbers are noted at the end of each year.

Optional Residue Status File Output. This optional output is also selected from the interactive startup. Information on the nutrient cycling and residue decay model is produced, at monthly intervals. The output data correspond to the conceptual pools of matter in the soil plus the mobile mineral material, and the column titles in figure 29 show the data that are included.

			ANNUAL	SUMMARY F	OR CROP Y	EAR 1973		
	Precip	Runoff	E.T.	Seepage	Profile Water	Sediment	Ni Leach	trate Runoff
	MM	MM	MM	MM	MM	T/HA		KG/HA
APR MAY JUN JUL AUG SEP OCT NOV DEC TOT	100.84 166.12 121.16 123.19 22.86 135.13 5.08 43.18 182.63 900.18	.00 23.95 16.35 39.56 .00 22.20 .00 .09 15.46 117.62	71.36 76.79 70.40 78.68 58.33 82.21 42.70 23.83 40.77 545.07	36.42 55.14 44.67 9.28 -10.37 16 -8.94 -7.60 63.30 181.74	230.77 223.83 234.06 223.80 219.47 194.37 225.25 196.57 223.42 286.52	.000 .278 1.641 3.081 .000 1.325 .000 .038 1.911 8.274	36.95 79.44 66.01 12.40 -13.43 32 -11.24 -9.37 72.35 232.78	.49 .70 .00 1.12 .00 .01
	NSTRES	SS DAYS	WSTRESS	DAY				
APR MAY JUN JUL AUG SEP OCT NOV DEC	1.000 .000 .000 .000 .000 22.985 .000	00 .0 00 .0 00 .0 00 .0 00 .0 54 23.0	.0765 .0000 .0000 .0000 14.0895 6.6205 .0000 14.2258 .0000	8.1				

Figure 24. Sample of standard output, annual summary of hydrologic balance.

האתב	DDECTD	DIMEE	O PEAK	PERC	AVC	SOIL	TRANS	מגעים	SED	ENR MANAGEMENT
DATE	FRECIF	RONEE	Q FLAR	FERC		MOIS	IKANS	LVAP	YIELD	RAT OPERATIONS
MMDDYY	MM	MM	MM/HR	MM	C	MM/MM	MM	MM	T/HA	Idii Ol Bidii 1010
			,			/			-,	
043073										SIMULAT. START
050273	10.16			0.52	18	.3107	0.00	3.58		
050873	16.00			1.88	18	.3155		10.46		
052273										FERTILIZED
052273										DISK hr
052373	22.10			3.60	19	.3289		12.40		
052873		15.28	4.72	7.47	20	.3449	0.00	13.29	0.14	1.58
060573	6.86			1.99		.3090				
060673		15.06		0.19	26	.3389				1.56
060773	20.07	0.53		10.32	27	.3474	0.00			1.75
061373	8.89	0.22	0.67	2.25	29	.3130	0.00	7.04	0.06	1.95
061473										APPLIED PARAQ
061573										plntsoy
070473	1.27			0.01		.2915				
070873			22.54		25	.3278				1.58
071473	19.05	5.77	16.97	5.80	27	.3079		13.05	0.42	1.61
092773	5.08			-0.77			29.93			
092873	6.35			-0.45		.2730				
093073	13.72			-0.57	17	.2816	5.40	2.34		•
100573	- 00									plntrye
103173	5.08			-5.97	14	.2567	25.69	4.39		
110773						4.40			, .	hvst sy
110170	00 00		0.06	0 05	10				ybean ?	
112173	20.83	0.03	0.06	-2.95		.2759				2.37
120473	1.27	0 00	0 00	0.05		.2930				0.70
120573	38.61	0.02	0.03	0.25		.3422			0.00	2.72
121573	18.29	MOME .	c - cnor	22.87	13	.3245	0.36		OWETE	
		NOIE:	S = SNOW	E WPP'	1 = 1	KKIGAT	ION,	m = 5N	OMMELT	

Figure 25. Sample of optional stormwise hydrologic output for standard output file.

EVENT RUNOFF OUPUT FILE FOR RAINS OVER 33.782 MM PARAMETER INPUT TITLE: WATKINSVILLE, GA., Catchment P-3 EPA management data

73-75 (length of precip record Breakpoint run

RAINFALL TITLE:

Bkpt data 73-75, WATKINSVILL P3

### HYDROGRAPH FOR RAINFALL OF 48.26 MM ON MAY 28 73:

#### UNFURROWED SURFACE FLOW CONFIGURATION

TIME	RAIN RATE	INFIL RATE	PLANE DISCHRG	OUTLET DISCHRG	ACCUM RUNOFF	SEDIMENT DISCHRG
MIN	MM/HR	MM/HR	MM/HR	MM/HR	MM	KG/MIN
231.000						
258.083	26.469	26.360	0.000	0.000	0.000	0.00
264.000	26.469	23.253	0.192	0.000	0.000	0.00
266.500	55.033	18.119	7.129	0.000	0.000	0.00
268.500	55.033	17.815	17.543	0.006	0.000	0.00
269.500	55.033	17.672	22.873	0.029	0.001	0.01
273.385	55.033	17.352	35.091	0.514	0.034	0.22
275.709	55.033	16.975	37.215	1.036	0.074	0.62
282.000	55.033	16.243	38.423	3.492	0.330	3.63
287.773	18.288	12.372	12.213	4.688	0.745	5.95
289.593	18.288	12.341	9.806	4.721	0.888	6.20
302.500	40.640	12.155	9.516	2.187	1.623	2.83
303.500	40.640	12.146	12.302	2.097	1.658	2.61
304.500	40.640	12.134	15.134	1.986	1.691	2.39
308.000	40.640	12.100	23.423	1.822	1.800	1.92
308.500	1.249	12.091	21.990	1.821	1.815	1.88
312.918	1.249	12.023	4.963	1.995	1.958	1.82
338.355	1.249	1.249	0.000	0.321	2.437	0.49
342.685	1.249	1.249	0.000	0.207	2.452	0.31
352.685	1.249	1.249	0.000	0.086	2.470	0.11

SUMMARY OF SURFACE RUNOFF FOR MAY 28 73:

RUNOFF OF 15.278 MM, SEDIMENT YIELD 0.1405 T/HA

NUTRIENTS IN RUNOFF: NO3= .0000E+00, NH4= .0000E+00, PO4= .0000E+00 G/HA

PESTICIDES AND RESPECTIVE RUNOFF AMOUNTS IN G/HA:

TRIFLUR, 0.000220 WITH SEDIMENT, 0.031704 DISSOLVED 1.764867 WITH SEDIMENT, PARAQ, 0.009522 DISSOLVED DIPHENA, 0.000015 WITH SEDIMENT, 0.003168 DISSOLVED

Figure 26. Sample of optional detailed surface hydrology output file.

	SUBSOIL	STATUS	AS OF D	EC 31					
NO.	FROM:	H (MM) TO:	DEGC	CONTE	CAPIL NT HEAD,	MM			
1	.00	10.00	2.5	.3300	-2	1.0			
10 11	609.60 762.00	762.00 952.50	11.9 12.6	.4006 .4006	-30 -30	3.1			
M	OBILE N	UTRIENTS	IN ROC	TZONE	LAYERS:				
		TH (MM) TO:			AMMONIA [KG/HA]	[K	SPHATE (G/HA]		
	10.00			091	.029 .699	12 18	2.730 3.118		
10 11 At	609.60 762.00 Depth	762.00 952.50 952.50	64. 97. 99	420 370 3.5 ppm	2.442 2.678 Below F	10 1 Roots	0.572 566 During	Interval	
F	ESTICID	E TOTALS	IN ROO	T ZONE	LAYERS:				
	FROM:	TH (MM) TO:	GM/F		PARAQ GM/HA				 
1 2	.00 10.00	10.00 40.00	. 427		1057. 2191.	•	3026E-04 5029E-03		
10 11	609.60 762.00	762.00 952.50	.135	55 L <b>6E-01</b>	.2222E-0	)1 . )1 .	1027E-01 4315E-02		
Accounting of Applied Chemicals for Year 1973									
Month	Chemi Nam	cal To	tal I	Lost in Air/Hvs	Decay t	zed	Resident	Runof Out	ep Out
				gm./	 ha				 

Month	Chemical Name	Total Input	Lost in Air/Hvst	Decayed	Resident	Runoff Out	Seep Out
			gm./ha.				
	TRIFLUR PARAQ DIPHENA	38.8248 8423.736 11.595					
APR	TRIFLUR PARAQ DIPHENA	38.8248 8423.736 11.595	.0000 .000 .000	22.2403 295.063 10.475	16.5809 8128.675 1.121	.0000	.0035 .000 .000
MAY	TRIFLUR PARAQ DIPHENA	38.8248 8423.736 11.595		31.2185 595.989 11.436	7.5395 7825.024 .158	.0210 2.724 .000	.0457 .000 .001
JUN	TRIFLUR PARAQ DIPHENA	599.2398 9959.274 3374.085		245.3262 922.886 2339.075	353.7544 9019.452 1034.961	.0379 16.934 .044	.1203 .000 .003

<sup>[\*\*\*]</sup> indicates where lines have been omitted for illustrative clarity.

Figure 27. Sample of optional detailed subsurface hydrology output file. [\*\*\*] indicates where lines were deleted so that all sections can be shown.

WATKINSVILLE,	GA., Catchment	P-3 EPA man	nagement	data		•
73-75 length Crop 1 is win	of precip record	d Breakpoin	t run			
JDAY 1: Root 4 173 598.9 4 273 599.2 4 373 600.6 4 473 602.2 4 573 603.1 4 673 603.6 4 773 603.6 4 873 603.6 4 973 603.6 4 1073 603.6 4 1173 603.6 4 1173 603.6 4 1173 603.6 4 1173 603.6 4 1173 603.6 4 1173 603.6 4 1173 603.6 4 1173 603.6 4 1173 603.6 4 1173 603.6 4 1173 603.6 4 1173 603.6	DM. 2: Root 2190.3 .0 2261.3 .0 2356.1 .0 2418.7 .0 2459.1 .0 2481.4 .0 2486.5 .0 2514.8 .0 2560.7 .0 2623.0 .0 2684.6 .0 945.6 .0 981.5 .0 ed)	DM. 3: Root	DM0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	TLAI 1.86 1.92 2.00 2.05 2.08 2.09 2.10 2.12 2.15 2.20 2.25 .26 .30	PFCOV .572 .586 .604 .615 .622 .625 .626 .631 .638 .647 .655 .082	StDry 44.9 44.5 44.0 43.6 43.1 42.7 42.3 41.9 41.4 41.0 40.6 40.2 39.8
52073 603.6 52173 603.6 52273 .0 (skipp Crop 2 is soy	981.5 .0 981.5 .0 .0 .0	.0 .0 .0 .0 .0 .0	.0	.20 .19 .00	.062 .062 .000	26.6 26.4 13.1
JDAY 1: Root 61573 .0 61673 .0 61773 .0 61873 .0 61973 .0 62073 .0 62173 .0 62273 .0 62273 .0 62373 .0 62473 .0 62573 .0	DM. 2: Root	DM. 3: Root	DM0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	TLAI .00 .00 .00 .00 .01 .01 .02 .03 .04 .04	PFCOV .000 .000 .000 .000 .001 .002 .003 .005 .007 .009	StDry 9.8 9.7 9.6 9.5 9.4 9.3 9.2 9.1 9.0 8.9 8.7

Figure 28. Sample of optional crop data output file. Lines have been deleted in two places for clarity. DM and StDry are in kg/ha, and root depths are in mm.

WATKIN	WATKINSVILLE, GA., Catchment P-3 EPA management data							
73 <b>-</b> 75	73-75 length of precip record Breakpoint run							
				Model Carbon metabc(2)		es som2c	som3c	
-								
1/ 4/73 1/ 5/73	3.755 3.672	3.3896 2.5604	37.478 35.478	86.7571 50.0903	119.69 126.70	1195.10 1191.84	1673.23 1673.24	
1/ 6/73	2.698	2.3003	38.022	30.0055	125.59	1185.89	1673.22	
1/ 7/73	.236	.1241	36.050	8.5278	113.38	1177.31	1673.21	
1/ 8/73	.323	.3027	32.021	2.1984	97.35	1166.48	1673.18	
1/ 9/73	1.429	2.6803	29.980	1.0415	89.53	1159.60	1673.15	
1/10/73	2.213	2.6680	27.680	.4203	81.78	1150.66	1673.10	
1/11/73	2.194	1.8779	26.510	.2580	77.94	1145.57	1673.08	
1/12/73	2.188	1.6331	26.037	.2107	76.41	1143.39	1673.05	
day	strucc(1)	metabc(1)	strucc(2)	metabc(2)	som1c	som2c	som3c	
1/ 1/74	2.382	2.0457	32.615	22.7369	77.45	1139.83	1673.00	
1/ 2/74	7.988	20.9372	32.516	18.6017	78.69	1137.28	1672.98	
1/ 3/74	11.720	30.6934	32.020	15.0401	80.27	1135.18	1672.96	
1/4/74	14.681	32.8907	31.189	10.4434	82.80	1131.70	1672.94	
1/ 5/74 1/ 6/74	16.428 .972	27.2740 1.2451	31.769 48.430	10.2536 24.5467	84.92 86.84	1126.45 1118.10	1672.90 1672.83	
1/ 7/74	.838	1.1819	45.120	7.2829	82.67	1116.10	1672.73	
1/ 8/74	1.158	1.9201	42.530	2.9170	76.25	1097.05	1672.65	
1/ 9/74	3.708	5.7072	39.573	1.0431	70.51	1086.89	1672.55	
1/10/74	3.967	3.9259	37.573	.4991	66.98	1079.34	1672.47	
1/11/74	18.351	40.9873	54.238	51.5325	69.26	1075.65	1672.44	
1/12/74	18.367	30.2667	52.880	34.1382	78.57	1072.10	1672.40	

Figure 29. Sample of optional output of monthly summary of major pools in the Opus modified Century residue and nutrient model. Dates are in dd/mm/yy format, and other units are in  $g/m^2$ .

Two options are available: a short 80-column version (shown), and a long 132-column summary of all major pools in the nutrient model. Note that in the column headings for this figure, the number (1) represents surface litter residue, and the number (2) represents the upper, active soil residue zone (approximately 200 mm). Definitions of the pool names can be found in appendix E. This sample output shows the effect of plowing in surface residue, as well as the effect of greater decay rates in the warmer months.

### RUNNING OPUS

Opus is furnished for an IBM-compatible PC operating under DOS. The code is written in FORTRAN, so it can be furnished for compilation on a different operating system if desired. Opus is run by typing the word OPUS at the system prompt. Opus prompts for file names, both mandatory and optional, which must follow DOS naming convention. Opus executable code uses about 511kb of operating memory, which somewhat restricts the amount of other resident memory that can be taken by concurrent DOS applications.

Table 16 describes system input/output information that is necessary for running Opus. Mandatory files are always read or written. Optional files depend on certain input and output options, chosen by assigning flag values in the input parameter file (see "Opus Parameter File" section, group A). The access to these files is also indicated in figure 2.

The set of input and output files used in any run is retained as information in a file called OPUSAV.FIL. If such a file is found in the current directory, this file is read and the information is displayed during the interactive startup. This feature is intended to aid the user when making only parameter changes between runs. The resident file assignments can be accepted or can be replaced by the user at will.

### Sample Run

The Opus DOS model is furnished with sample input and output files. The user should always implement the program by first running this sample simulation and should check that the results obtained are very similar to the output provided. Computers with various machine precisions will always produce slightly different results, but significant differences should be investigated.

### Modifying Opus

The Opus FORTRAN code was not designed to be either read or modified by users. The system is extremely complex, and some functions are performed in certain subprograms for programming convenience, rather than in simple separate subroutines. Interactions are not always obvious, and most changes are not simple. Thus, modification can cause unexpected (and insidious) results.

Table 16.
System Input/Output Information

Device <sup>1</sup>	Occurrence	Function	Contents
1	Mandatory	Read only	Meteorologic data (climate statistics; rainfall data, if used)
2	Mandatory	Read only	Parameter data (watershed description; initial conditions; management data)
3	Mandatory	Write only	Printer-formatted output file (always written); contains some input data notes, run summary, and program error and warning messages; contains stormwise hydrologic data if requested.
4	Optional	Read_only	Measured hydrology, meteorology, and/or sediment data, if available
7	Optional	Write only	Optional within-storm hydrologic output
8	Optional	Write only	Optional soil-layer output
9	Optional	Write only	Optional residue pool output or crop growth summary. Selection made by user at start of run.
			,

<sup>&</sup>lt;sup>1</sup>Device numbers (e.g., READ(1,...) and WRITE(3,...) are defined in main program in variables named INUNn and IOUTn, where n is the device number. All READ and WRITE statements reference the variable unit name, to allow simple changing of units on systems where our choice of numbers conflicts with system defaults.

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Appendix A. Programs to Convert CREAMS Precipitation Files to Opus Input Format

The same basic process is used to modify both daily and breakpoint data files: An old file is read, a small "additional data" file is read, and a new file is written. Table A-1 describes the structures and formats of the three files for each case.

\_\_\_\_\_\_\_

Table A-1. CREAMS-Opus rain conversion program: Input and output files

Case	File	Logical Unit	Function	Record	Variables	Format
D	Old format preci	p 1	Read	1-37*	R(I), I=1, 10	(10x,10F5.2)
A	Additional info	2	Read	1 2	ITITLE(I), I=1,20 IYR	(20A4) (I2)
L Y	OPUS format	3	Written	1 2-38*	ITITLE(I), I=1,20 IYR, (R(I), I=1,10), N	(20A4) (3x,I2,5x, 10F5.2,I5)
			* Repeate	ed for each	year's data.	
В	Old format preci	p 1	Read	1	IYR, IDA, N	(318)
R E A				2-*	R(1),T(I)	(2F8.2)
K P	Additional info	2	Read	1	ITITLE(I), I=1,20	(20A4)
O I N	OPUS format	3	Written	1 2	ITITLE(I), I=1,20 IYR, IDA, N	(20A4) (3I8)
T				3-*	(R(I),T(I),I=1,5)	(10F8.2)

<sup>\*</sup> Repeated, 5 pairs per line, until all breakpoint pairs are written.

The following programs, DACNVT and BKNCVT, convert daily and breakpoint data from old CREAMS format to OPUS format:

```
Program DACNVT
C
        FORTRAN program to convert CREAMS DAILY precip files
        to OPUS format
С
                                   File Information
С
                                Unit Function Contents
С
С
                                        READ Old CREAMS daily precip
С
С
                                        READ
                                                 Title line and first year line
С
С
                                       WRITE New OPUS-formatted file
С
С
С
       dimension ititle (20), r(10)
C
       read(2,200)(ititle(i), i=1,20)
       read(2,201)iyr
С
       write (3,200) (ititle (i), i=1,20)
 1
       continue
       do 10 i=1,37
    read(1,100,end=99)(r(j),j=1,10)
    write(3,300)iyr,(r(j),j=1,10),i
 10
       continue
C
       iyr = iyr+1
       go to 1
С
c end-of-file
 99
       stop
 100
       format(10x,10f5.2)
 200
       format (20a4)
 201
       format(i2)
 300
       format (3x, i2, 5x, 10f5.2, i5)
```

```
С
С
         Program BKCNVT
С
С
         FORTRAN program to convert CREAMS BREAKPOINT precip files
        to OPUS format
С
С
                                       File Information
С
                                   Unit Function Contents
С
С
                                                      Old CREAMS breakpoint precip
С
                                            READ
С
                                    2
                                            READ
                                                     Title line
С
                                            WRITE
                                                    New OPUS-formatted file
С
С
С
        dimension ititle (20), r(200), t(200)
С
        read(2,200)(ititle(i),i=1,20)
        write (3,200) (ititle (i), i=1,20)
С
        write(3,201)
С
        read (1,100,end = 99)iyr,ida,n
write(3,100)iyr,ida,n
С
        do 10 i=1, n
 10
        read(1,101)(r(i),t(i))
С
С
        rewrite five pairs per line
С
        j1=1
        j2=min0(5*nc,n)
write(3,300)(r(i),t(i),i=j1,j2)
 15
       if (j2.eq.n) go to 1
j1 = j1+5
nc = nc+1
go to 15
  end-of-file
 99
       stop
 100
       format(3i8)
 101
        format (2f8.2)
        format(20a4)
format('
 200
 201
        format (10f8.2)
 300
        end
```

Appendix B. Input Variable Glossary:

Part 1. Input Parameters

## RUN ID AND CONTROL FLAGS

Record	Variable	Description	Metri	<u>Units</u> English	<u>Default</u> metric
A01	TITLE	(3 lines) Descriptive information			
A02 A02 A02	IBDATE IEDATE IFWRDA	Simulation begin date Simulation end date Controls writing of date to terminal throughout simulation 0 = no screen output 1 = date output		mmddyy mmddyy	
A02	INTSP	Time increment of output to soil layer file  0 = no output  1 = daily  31 = last day of each month  365 = annual  n = every n days		days	
A02	ICON	Flag switching soil layer output from mass to concentration for all chemical variables  0 = mass output 1 = concentration output			
A02	THRESH	Rainfall depth below which no detailed surface hydrology is output	mm	in	
A02	IRYR	Rotation year of run start (corresponds to input sequence in management list)			
A03	INUN	Tells Opus units of input data  1 = metric 2 = English			
A03 A03	IOU IHOP	Output analog of IMUN Specifies runoff methodology  1 = SCS curve rumber (daily values) 2 = infiltration model (breakpoint data)			
A03	IPAN	Pan evap/data flag  0 = Solar radiation data read  1 = pan evap data read			
A03	IFOUT	Controls output options  0 = Monthly and annual hydrology summary only  1 = Stormwise hydrology summary in addition to monthly and annual summaries			
A03	IFRAN	Controls meteorologic data randomization  0 = Temp and rad daily means (smooth)  1 = randomize T & R			
A03	IFRNCN	Controls randomization of curve number results  0 = no randomization			
A03	IFREAL	1 = results randomized  Real data file option 0 = no 1 = yes			
A04	IFSED	Sediment transport option  0 = no  1 = yes			
A04	IFNUT	Simulation of nutrient transport and soil nutrient transformations  0 = none  1 = nitrogen only 2 = nitrogen and phosphorus			
A04	IFPEST	Pesticide transport options  0 = none  1 = pesticides 2 = radionuclides			

Record	Variable	Description	Metric	<u>Unit</u> English	<u>s</u> <u>metric</u>	<u>Default</u>
A04	IFIRR	Irrigation additions options  0 = none  1 = sprinkler  2 = local furrow				
A04	I FPOND	3 = ditch furrow  Farmpond unit option 0 = no 1 = yes, with depth-area relation input 2 = yes, with depth-area relation estimate	ed			
A04	IFDRAN	from topography Tile drains option 0 = no 1 = yes				
A04	IVARK	Spatially varying USLE "K" option  0 = no 1 = yes				
A04	IFT	Actual mean monthly weather variables read  0 = no data furnished  1 = daily max and daily min temperatures  2 = daily mean radiation (Langleys)				
A04	IFGEN	Controls generating of daily rainfall data 0 = data not generated 1 = daily rainfall generated				
		**************************************				
B01	DA	Field area		ha	ac	
B01 B01	DWTB GLAT	Depth to water table, or drains if IFDRAN>0  Latitude of field (+=N hemisphere, -=\$)		m degrees	ft degrees	
B01	CN2	AMC Class II curve number (hydrology option INC	OP=1)	uegi ees	degrees	
B01 B01	PHRN CONRN	Rainfall N concentration		- 	-	
B01	DASL	Rainfall N concentration Depth of chemically interacting soil		mg/L mm	ppm in	10
B01	ALBS	Smooth, dry soil surface albedo		-	-	0.35
B01	FWIND	Evap. enhancement factor wind and humid.(mean)		-	-	0.28
B02	SRESD	Initial surface residue amount		kg/ha	lb/ac	
B02 B02	STDRY	Initial standing plant dry matter Initial soil water content (by volume)		kg/ha mm/mm	lb/ac in/in	
B02	ROWSP	Initial row spacing on field		m	ft	
B02	DPFR	Initial furrow depths, (mean)		cm	in	
B02 B02	RGSURF ZSF	Initial relative surface roughness height Initial row sideslope, as cotangent (H:V)		mm cm/cm	in in/in	1.5
B02	DTILL	Initial depth to plowpan (optional)		cm	in	
B03 B03	NC ICR(I)	Number of crops on field at start of simulation Crop ID no. for Ith crop on field at start of simulation (I=1 to NC)	n	-	-	
		(ID no. corresponds to order in data D)		-	-	

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C01	NSL	Number of distinct soil horizons (input)	-	•	
C02 C02	GZH(I) POR(I)	Depth from surface to bottom of horizon I Undisturbed porosity of horizon I (fraction by vol.)	mm/mm	in in/in	
C02 C02 C02 C02	PSAND(I) PSILT(I) PCLAY(I) RC(I)	Proportion by wt. sand-size particles in soil I Proportion by wt. silt-size particles in soil I Proportion by wt. clay-size particles in soil I Natural saturated hydraulic conductivity soil I	frac frac frac ππ∕hr	tion	
C02	B15(I) PBU8(I)	15-bar water content of horizon I Air entry potential of horizon I (Table 7)	तका/तका तका	in/in in	
C02	ALAM(I) THS(I)	Pore-size distrbution index of hor. I Soil water content at saturation	man/man	in/in	
C03 C03 C03 C03	ORGC(I) SRSDU(I) WNO3(I) WPLAB(I) SPH(I)	Organic C content of hor. I, % by wt. Initial incorporated plant residue in hor. I Soil nitrate content of hor. I, soluble Soil labile P content of hor. I pH of horizon I	% g/t g/t g/t	ppm ppm ppm	
C03	PKD(I)	Isothermal adsorption coefficient for	mL/g	mL/g	100+2.5*PCLAY
C03	FEROD(I)	labile P in layer I Flag indicating erosion resistance O=erodible 1=nonerodible			
C03 C03 C03	OMN(I) OMP(I) TOTP(I)	Organic matter N in layer I Organic matter P in layer I Total phosphorus content of soil	g/t g/t kg/ha	ppm ppm lb/ac	50
		CROP DATA			
		***************************************			
D01	NCROP	Total no. of different crops in rotation cycle	-	•	
D02 D02	IDCR(I) IPER(J)	Identifying name for crop, 1 to 7 letters Annual-Perennial crop type identifier for crop J  0 = annual crop  1 = perennial, harvested  2 = perennial, grazed  3 = perennial, ungrazed  4 = annual, grazed  5 = winter annual	-	-	
D02 D02	PLAI(J)	Maximum potential leaf area index, crop J Degree-days to emergence of crop J	- °C-days	- ° E - dove	
D02	DDEM(J) DDMX(J)	Degree-days to maturity of crop J	°C-days	°F-days °F-days	
D <b>02</b>	PDRYM(J)	Potential annual total dry matter production, crop J	kg/ha	lb/ac	
D02 D02 D02 D02	POTY(J) RDP(J) PLIG(J) RLIG(J)	Potential yield of fruit or seed for crop J Potential max. root depth of crop J Plant above-ground lignin content Plant root lignin content	kg/ha mm fracti fracti		
D <b>03</b>	POTHT(J)	Potential plant height for crop J	m	ft	
D <b>03</b>	PPCV(J)	Maximum relative surface coverage of crop J	-	-	
D03	TGBM(J)	Minimum temperature for growth of crop J	°C	°F	

Record	Variable	Description	Metric	<u>Units</u> English	_	<u>Default</u>
D03	TGOP(J) CONVF(J)	Optimum temperature for growth of crop J Coefficient of conversion of radiation to dry		°C	°F	
D03	DEACT(J)	matter: photosynthetic constant for crop J Rate of loss of active leaf area during		kg/ha/ly kg/kg/day	- lb/lb/da	ау
D03	COVI(J)	senescence Relative amount of winter shade from <u>perennial</u>				
D03	DMINIT(J)	<pre>dry matter (stems and all) for crop J Initial weight of plant if planted as a seedlin (0 = seeded crop or perennial)</pre>	g	kg/ha	- lb/ac	
D04 D04	CEXN(J)	N fraction in fruit or seed of plant J Flag indicating crop J is an N-fixer 0 = no 1 = yes		kg/kg	lb/lb	
D04 D04	PNO(J) PNF(J)	N in dry matter of plant J at emergence W in dry matter of plant J at maturity		kg/kg kg/kg	lb/lb lb/lb	
D04	DKC(J)	Decay coefficient for relative curvature of N concentration curve between PNO and PNF as plan	t	~3/ ~B	(5, (5	
D04	PNRAT(J)	grows, (0=straight line, 10=rapid decline) Ratio of P to N in plant J		-	-	
004	PRKAT(J)	Ratio of P to R in plant 3		-	•	
		*****				
		MANAGEMENT ************				
ε01	ТНЕМТН	Relative moisture content above which no tillag or field operation is performed	e	mm/mm	in/in	
E02	NTL	Total number of different management field oper	ations	-	-	
E03 E03 E03	IDTIL(J) IDPL(J) NTYTL	7-letter identification of field operation J ID of crop with tillage J (same order as data D Code categorizing field operation into 1 of 5 t 1 = plant seeds		-	•	
ε03	RFT(J)	2 = cultivate 3 = harvest or grazing 4 = plow, incorporate standing dry 5 = plow, leave standing dry; or root harv Random roughness produced on surface by field	est	mm	in	
		operation				
E03	PLOWD(J)	Depth of penetration of operation J.  Must be <gzh(1), depth="" horizon<="" of="" td="" top=""><td></td><td>AM</td><td>in</td><td></td></gzh(1),>		AM	in	
E03 E03	EFTL(J) DFRW(J)	Mixing or harvest efficiency of operation J Furrow depth produced by operation J		fractio	on in	
E03	WFRW(J)	Furrow spacing produced by operation J		m	ft	
E04	NPST	Number of different pesticides applied		-	-	
E05	IDPST(K)	7-letter identification name of pesticide K		day <sup>-1</sup>	day <sup>-1</sup>	
E05 E05	DKFL(K) DKSOIL(K)	Foliar decay coefficient, pesticide K Decay coefficient for pesticide K in soil		day -1	day -1	
E05	DKOC(K)	$\mathbf{K}_{\text{oc}}$ (isothermal coefficient) for adsorption of			day	
E05	PPWLF(K)	pesticide K on soil Current amount of washable pesticide K on plant (initializing data)	s	mL/g	Ib/ac	
E05	PINSLT	Starting amount of pesticide K in first 10 mm o	f soil	kg/ha kg/ha	lb/ac lb/ac	
E05 E05	PSOLUB(K) FWASH(K)	Water solubility of pesticide K Fraction of pesticide K on plants that is washa	ble	g/t fraction	ppm	
E05	BEXTR(K)	Surface flow extraction coefficient for pestici-			-	
E05	RELP(K)	Relative rate factor for kinetic adsorption mod	el	kg/L min <sup>-1</sup>	min <sup>-1</sup>	0.9

Record	<u>Variable</u>	Description	Metric	<u>Units</u> English		<u>Default</u>
E06	DKTHE(K)	Soil moisture at which DKSOIL determined		mm <sup>3</sup> /mm <sup>3</sup>	in <sup>3</sup> /in <sup>3</sup>	0.5
E06	DKTEMP(K) ARRHC(K)	Temperature at which DKSOIL determined Activation energy for Arrhenius equation		°C Kcal/mole	°F -	21 10
E07	PLCON(K)	Initial concentration of pesticide K in layer en at PLDEP	nding	mg/kg	ppm	
E07	PLDEP(K)	Depth from surface to the bottom of the region we PLCON applies	where	rim.	in	
E08	NMAN	No. of manure types defined by user (9 are intr	insic)		-	
E09	N	Index of manure type being read in				*
E09	ATN(N)	Nitrate content of manure type N		%	%	*
E09	ANH(N)	Ammonia content of manure N		Ŷ.	%	*
E09		Labile P content of manure N		ž	*	*
	APHOS(N)					*
E09	AOM(N)	Organic matter content of manure N  * Default values for 9 common types of land-app manure are provided, described in Table 10	plied	*	*	*
E10	NYROT	Number of years in rotation cycle		•	-	
E11	NTY(Y)	No. of mechanical operations in rotation yr Y		•	•	
E12	MO	Month of this operation		month		
E12	IDA	Day of this operation		day of	month	
E12	KTILL(Y,I)	Code no. of this (Ith) operation (corresponding to order of input in EO4 list)		-	•	
E13	NFR(Y)	No. of fertilizer applications in rotation yr $\Upsilon$		-	-	
E14	MO	Month of fertilization N		month		
E14 E14	IDA KAPPL(Y,N)	Day of this operation Code of method of fertilization in rotation yr )	ſ		month	
		<pre>0 = surface applied 1 = inject into soil</pre>				
=4/	EEDWAY NA	2 = dissolved in irrigation water		1 - 46 .	11.4.	
E14	FERN(Y,N)	Nitrate in Nth fertilization in yr Y		kg/ha	lb/ac	
E14	FERP(Y,N)	Phosphate in Nth fertilization in yr Y		kg/ha	lb/ac	
E14	FERA(Y,N)	Ammonia in Nth fertilization in yr Y		kg/ha	lb/ac	
E14	MATYP(Y,N)					
		(0=none, 1-10 default or user-supplied types)		-	-	
E14	RATE(Y,N)	Manure application rate in Nth applic. in yr Y		t/ha	tn/ac	
E14	DEPIN(Y,N)	Depth of injection, if added at a single depth		तात	in	
E15	NPEST(Y)	No. of pesticide applications in rotation yr Y		-	-	
E16	MO	Month of application P		month		
E16	IDA	Day of application P		day of	month	
E16	KPEST(Y,P)	Type code of Pth applic. in yr Y				
E16	IAPLIC(Y,P)	(corresponding to E06 cards) Code of application method for applic. P		•	•	
		<pre>0 = inject into soil 1 = aerial application, specific division between amt. landing on soil &amp; plant 2 = dissolve in irrigation water 3 = aerial application, program decides amt. landing on soil &amp; plant</pre>				
E16	QPEST(Y,P)			kg/ha	lb/ac	
E16	FRACA(Y,P)		on)	fracti	-	
E16	FRACP(Y,P)	Proportion of QPEST intercepted by plant, if kno		fracti		
E16	DEPST(Y,P)	Depth of injection, if so applied			in	
E17	IRRDY	No. of days in irrigation season		-	-	

Record	<u>Variable</u>	<u>Description</u> <u>Metric</u>	<u>Unit</u> c <u>English</u>	<u>s</u> <u>Default</u> <u>metric</u>
E17 E17 E17 E17 E17 E17	IMOS IDAS NIRD AMIRR TIRR THIRR	Month of irrigation start Day of irrigation start Interval of days between regular-schedule irrigation Depth of irrigation per event Total annual supply for ditch-type irrigation Soil water content threshold below which irrigation is performed (demand scheduling) Rate of application into basic field unit	month day o days mm mm mm/mm mg/mm	f month days in in ft <sup>3</sup> /s
E18 E18 E18	DRSP DDIMP RCLM	Horizontal spacing of draintiles Depth below drains to limiting/imperv. boundary Mean flux limit of lower bound at DDIMP	តា កា mm/hr	ft ft in/hr
		FIELD TOPOLOGY		
F01	IFFIX	Flag indicating presence of a fixed-management zone along the 'overland' (plane of furrow) flow path 0 = no		
F01	ITOCH	1 = yes Second order channel option 0 = no 1 = yes		
F01	MULP(K)	No. of (identical) runoff segments contributing to the order 1 channel(s)  1 = channel is on one edge, 2 = channel is between two segments		
F01	XLP SLA(KL,1)	Length of mean flow path on surface or along furrow for runoff segment Mean overall slope along path XLP	<b>m</b> <b>m</b> /m	ft ft/ft
F01 F01	PAR PMN	Total area feeding order 1 channel. Includes both elementary segments if MULP = 2 Initial Manning's n for plane	ha	ac
F02	NPT	No. of locations along XLP at which slope is specified. For J=1 to NPT:	-	•
F03	XSP(J)	Distance along path XLP at which slope SP(J) is measured	m	ft
F03	SP(J)	Local slope at location XSP(J)	m/m	ft/ft
F04	XLFS	Distance from top of slope to beginning of fixed zone (such as grass buffer zone)	m	ft
F04	XLFE	Distance from top of slope to end of fixed management zone	តា	ft
F04 F04	RMNF(KL,L) SLRF	Fixed value of Manning n in unmanaged zone Fixed value of "soil loss ratio" in unmanaged zone	-	-
F04	PRFF	Fixed value of USLE "P-factor" in unmanaged zone	•	-
F05	NKP	No. of different zones of USLE K along XLP	-	-
F06	XKS(J)	Distance along XLP to lower end of zone having soil with USLE K of USK(J)	គា	ft
F06	USK(J)	USLE 'K' for zone from XKS(J-1) to XKS(J)  * units are complicated, see text	*	*
F07	IFFIX	Flag indicating presence of fixed management zone along the channel path  0 = no 1 = yes		

Record	<u>Variable</u>	Description	Metric	<u>Uni</u> Englisi	ts <u>Default</u> h metric
F07	NUN(KL)	Number of order L-1 catchments (of area PAR)			
F07	NEPH(KL,L)	making up order L catchment, or total field Flag indicating channel permanence 0 = permanent		•	-
F07 F07 F07	XLC SLA(KL,L) ZCA(KL,L) ARUP(KL,L)	1 = ephemeral (reset by cultivation) Length of flow along channel path Mean overall slope along XLC Mean initial channel sideslope (H:V) Area (fraction of PAR) contributing to upstream	point	m m/m m/m	ft ft/ft ft/ft
F07	WINIT	along XLP at which defined channel begins Initial width of channel bottom width at channe outlet (0 indicates triangular section, negative indicates a naturally eroded rectangular section with width =  WINIT )	e	ha	ac
F07 F07	DINIT	Initial depth of channel below mean surface Manning's n for channel		A	ft
F08	NPT	No. of locations along path XLC at which a vary local slope is specified	ing	-	•
F09 F09	XSP(J) SP(J)	Distance along path XLC at which slope SP(J) is Local slope at location $XSP(J)$	given	៣ គា/៣	ft ft/ft
F10	XLFS	Distance from top of XLC to start of fixed			
F10	XLFE	condition section Distance from top of XLC to end of fixed section	n	m	ft
F10	RMNF(KL.L)	(e.g. grass-lined channel section) Manning n roughness of fixed section		m -	ft -
F10	TAUCF(KL,L)	Critical shear for hydraulic erosion		N/m <sup>2</sup>	lbf/ft <sup>2</sup>
F10	WIDFX(L)	Width of channel thru the unmanaged or lined sec	ction	m	ft
F11	IFOUTL	Flag for pond outlet rating 1 = rating from power function (see below) 2 = rating from orifice diameter = CQ			
F11	AV	Parameters in relation of surface area, AS,		m <sup>2</sup>	ft <sup>2</sup>
F11 F11	CV	to its depth, h, for farm pond: AS = AV + BV * (h)		*	*
F11	C9 E9	Parameters in relation to outflow discharge, 90, to depth, h, for farm pond: $QO = CQ(h - ZQ)^{EQ} OR:$		m <sup>3</sup> /min	ft <sup>3</sup> /min
F11	ZQ	QO = CQ(h - ZQ) <sup>2Q</sup> OR: Note: IFOUTL = 2 indicates that CQ = orifice di	ameter	mm	in
F11	RLOSS	(mm or in), in which case EQ and ZQ may be blank Rate of loss from pond bottom		mm/hr	in/hr
		在本本市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市			
G01	NPS	No. of particle size classes		-	-
G02 G02 G02 G02 G02 G02 G02	DPS(J) RHOP(J) PROSL(J) FRASN(J) FRASL(J) FRACL(J) FRORG(J)	Mean effective diameter of particle size class J Effective particle specific gravity for size clas Proportion of particles by wt. in size class J Fract. of particle class J made of primary sand Fract. of particle class J made of primary silt Fract. of particle class J made of primary clay Fract. of particle class J of organic matter		frac frac frac	in - 2.65 ction ction ction ction ction

Record	<u>Variable</u>	<u>Description</u> <u>Metric</u>	<u>Unit</u> English	<u>metric</u>	<u>Default</u>
G03	SSCLY	Specific surface of clay-size particles	$m^2/m^3$ $m^2/m^3$	ft <sup>2</sup> /ft <sup>3</sup>	20.0
G03 G03	SSSLT SSSND	Specific surface of silt-size particles Specific surface of sand-size particles	m <sup>2</sup> /m <sup>3</sup>	ft <sup>2</sup> /ft <sup>3</sup>	0.05
G03	SSORG	Effective specific surface of soil organic matter	m <sup>2</sup> /m <sup>3</sup>	ft <sup>2</sup> /ft <sup>3</sup>	1000
G04	ASLK	USLE K for overall field soil(s)	*	*	
G04	PRF	USLE P-factor for cropping practice option 1 only	-	-	
G04	EKT(1)	Relative erodibility factor for splash erosion on	**	**	0.08679 plane
G04	EKT(2)	Critical shear initiating erosion in channel 1	N/m <sup>2</sup>	lbf/ft <sup>2</sup>	***
G04	EKT(3)	Critical shear initiating erosion in channel 2	N/m <sup>2</sup>	lbf/ft <sup>2</sup>	

Appendix B. Input Variable Glossary:

Part 2. Meteorological Data

## \*\*\*\*\* METEOROLOGICAL DATA

Record	<u>Variable</u>	Description	<u>Uni</u> Metric	<u>ts</u> English	<u>Default</u> <u>Metric</u>
н01	DATNAM	Identifying information at start of data file	-	-	
н02	TXMD	Mean dry-day maximum temperature	°c	°F	
н02	ATX	Amplitude of annual variation of TXMD	c°	F <sup>o</sup>	
н02	CVTX	Coefficient of variation of maximum T on dry days	c°/°c	F°/°F	
н02	ACVTX	Amplitude of annual variation of CVTX	c°/°c	F°/°F	
н02	TXMW	(in phase with TXMD) Mean wet-day maximum temperature	°c	°F	
н03	TN	Mean dry-day minimum temperature	°c	°F	
н03	AMTN	Amplitude of annual variation of TN	c°	F°	
н03	CVTN	Coefficient of variation of minimum temperature	c°/°c	F°/°F	
н03	ACVTN	Amplitude of annual variation of CVTN	c°/°c	F°/°F	
н04	RMD	Annual mean daily net radiation on dry days	ly	ly	
н04	AR	Amplitude of annual variation of RMD	ly	ly	
н04	RMW	Annual mean daily net radiation on wet days	ly	ly	
н04	SEED	Random number generator seed	•	-	231
н05	PRW(2,M)	Probability of a wet day following a wet day for month M	decima	ι	
н06	PRW(1,M)	Probability of a wet day following a dry day for month M	decima	ι	
н07	ALFG(M)	Gamma distribution parameter for statistical description of daily rainfall amount on wet days in month M		-	
80н	BETG(M)	Gamma distribution parameter for statistical description of daily rainfall depth on wet days in month M	mm	in	
н09	RI(M)	Relative peak 30-min rain intensity (from record) for month ${\bf M}$	mm/hr	in/hr	
н10	TAMX(M)	Mean daily maximum temperature for month M	°c ·	°F	
H11	TAMN(M)	Mean daily minimum temperature for month M	°c	°F	
н12	RA(M)	Mean daily incoming solar radiation for month ${\bf M}$	ly	ly	
н13	TP05	30-min. rain depth with 10-yr return period	mm	in	
H13	TP6	6-hr. rain depth with 10-yr return period	mm	in	
н13	COEFF	Pan coefficient, value needed if IFPAN>0	-	-	



Appendix C. Sample Parameter and Meteorology File Templates

1. The Parameter File Template begins with the line "O P U S .. ":

## O P U S Parameter File Template

Enter data on lines ending with record ID in col. 78-80 (e.g. A01)

See Opus User Manual for detailed description of input data.

Variable name is printed above its location: enter data right-justified to the variable name.

The record ID must be in columns 78-80 of all data input records; be sure this is accomplished when entering data on template.

Data type (A-I) in column 78 corresponds to User Manual data type and chapter; e.g. guidance for the management record set will be found in the User Manual on pages noted "Group E - Management" above the page number.

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**							* *			
** R U	N I D	and	CON	TRO	L F	LAGS	-			
**							**			
*****										
*****	*****	*****	*****	****	*****	****	***			
TITLE									imulation	
WATKINS	VILLE,	GA., Ca	tchment	P-3	EPA I	nanageme	ent data	l .		A01
72 75/1		e		.a.\	D 1					A01
/3-/5(1	ength o	f preci	p recor	a)	Brea	opoint i	curi			A01
		- boei-		d data						
E	ncer ru	n begin	and en	d dates	and ri	in obcid	on rrage	·		
IBDATE	TEDATE									
MODAYR		TEWRDA	INTSP	TCON	THRESH	IRYR				
050173		1	30	0	1.33	1				A02
INUN	IOU	IHOP	IPAN	IFOUT		IFRNCN	TEREAL.			AVZ
2	1	2	0	2	1	0	0			A03
IFSED	_	IFPEST	-	IFPOND	_	IVARK	IFT	IFGEN		1103
2	1	1	0	1	0	0	2	0		A04
_	_	_	-	_			_			
*****	*****	*****	*****	*****	*****	*****	*****	****	*****	****
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** G	ENER	AL	WAT	ERS	H E D	& I	NITI	AL	STAT	E **
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****	*****	*****	*****	*****	*****	******	*****	*****	* * * * * * * * *	****
****	*****	*****	****	*****	****	*****	*****	*****	******	****
DA	DWTB	GLAT	CN2	PHRN	CONRN	DASL	ALBS	FWIND		
3.11	10.0	31.0	80.	5.60	0.80	0.39	0.35	0.28		B01
SRESD	STDRY	THST	ROWSP		RGSURF	ZSF	DTILL			
100.0	100.0	0.20	0.5	3.0	0.5	0.5	0.			B02
There	must b	e NC va	lues of	ICR or	n B03					
NC	ICR	ICR	ICR	ICR						-00
1	1									в03

* * * * * * * *	*****	^^^^	~ ~ ~ ~ ~ ~ ~ ~ ~						**	
**		S	OIL	HOR	ΙΖΟ	N D A	AIA		**	
* *				_	_				**	
							*****			
NSL	*****	*****	****	*****	*****	*****	*****	*****	****	
4										C0
				C02-C0		ts				
and	records	, one i	or each	horizo	n 					
GZH	POR	PSAND	PSILT	PCLAY	RC	B15	PBUB	ALAM	THS	
6.00	.41	.64	.19	.17	0.55	.13	4.9	-1.0	.33	CC
ORGC	SRSDU	WN03	WPLAB	SPH	PKD	FEROD	OMN	OMP	TOTP	
1.00	100.	250.0	22.0	5.9	-1.0	0.00	-1.0	-1.0	-1.0	C
GZH	POR	PSAND	PSILT	PCLAY	RC	B15	PBUB	ALAM	THS	
.2.0	.45	.49	.14	.37	0.30	.24	5.0	-1.0	.35	C
ORGC	SRSDU	WN03	WPLAB	SPH	PKD	FEROD	OMN	OMP	TOTP	
.30	50.	200.0	12.0	6.0	-1.0	0.0	-1.0	-1.0	-1.0	C
GZH		PSAND	PSILT	PCLAY	RC	B15	PBUB	ALAM	THS	0.1
4.0 ORGC	.49 SRSDU	.46 WNO3	.16 WPLAB	.38 SPH	-1.0 PKD	.28 FEROD	0 OMN	-1.0 OMP	.40 TOTP	С
.15	20.	50.0	1.0	6.0	-1.0	0.0	-1.0	-1.0	-1.0	С
GZH		PSAND	PSILT	PCLAY	RC	B15	PBUB	ALAM	THS	C
0.0	.49	.51	.27	.22	-1.0	.28	0	-1.0	. 45	С
ORGC	SRSDU	WN03	WPLAB	SPH	PKD	FEROD	OMN	OMP	TOTP	Ū
	_									
****					-1.0		-1.0 ****** ***	****	-1.0	С
**** **** **	****	*****	*****	*****	-1.0	****	*****	* * * * * * * * * * * * * *	-1.0	C
* * * * * * * * * * * * * *	*****	****** ******	****** ******	****** ******	-1.0	***** *****	* * * * * * * * * * * * * * * *	***** **** **	-1.0	C
* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	******** C R	******** O P	**************************************	-1.0  *******  A T	***** *****	*****	***** **  **  **  **  **	-1.0	C
* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	******** C R	********* O P	**************************************	-1.0  *******  A T	***** *****	****** *****	***** **  **  **  **  **	-1.0	С
* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	******** C R	********* O P	**************************************	-1.0  *******  A T	***** *****	****** *****	***** **  **  **  **  **	-1.0	
**** **  **  **  **  **  **  *CROP  3	****** *******	******  C R  ******	******* O P ******	**************************************	-1.0  ******  A T  *******	***** *****	****** *****	***** **  **  **  **  **	-1.0	
**** **** **  **  **  **  *CROP  3  Ther	****** *******  ******	*******  C R  *******  *******	******* O P *******  *******	**************************************	-1.0  ******  A T  *******	***** *****	****** *****	***** **  **  **  **  **	-1.0	
**** **** **  **  **  **  *CROP  3  Ther	****** *******	*******  C R  *******  *******	******* O P *******  *******	**************************************	-1.0  ******  A T  *******	***** *****	****** *****	***** **  **  **  **  **	-1.0	
*****  **  **  **  **  **  **  *CROP  3  Ther  prom	****** ****** ******	*******  C R  ******  *******  be NCRO	******* O P  *******  *******  DP sets records	D *******  D *******  Of D02-	-1.0  ******  A T  *******  ********	****** A *****	****** ******** ******	***** **  **  **  **  **  **  **  **		
*****  **  **  **  **  **  **  **  **	******  ******  ******  e must  pts and	******  C R  ******  ******  be NCRO I data n	******* O P  *******  *******  *******  DP sets  ecords  DDEM	********  D  *******  of D02-  DDMX	-1.0  ******  A T  *******  PDRYM	****** A ****** POTY	****** ****** ******* ****	***** **  **  **  **  **  **  **  **	RLIG	D
*****  **  **  **  **  **  **  **  **	******  ******  e must  pts and  IPER  0	*******  C R  ******  ******  be NCRO data r  PLAI 3.00	******* O P  *******  *******  *******  *******  ****	*********  D  *******  of D02-  DDMX 2500.	-1.0  ******  A T  *******  D04   PDRYM 4000.	****** A ****** POTY 48.	******* ******* ******* RDP 24.0	***** **  **  **  **  **  **  **  **		D
*****  **  **  **  **  **  **  **  **	****** *******  ******  e must  pts and  IPER  0  PPCV	*******  C R  ******  ******  be NCRO data 1  PLAI 3.00 TGBM	*******  O P  *******  OP sets  ecords  DDEM  150.0  TGOP	*********  D  *******  of D02-  DDMX 2500.  CONVF	-1.0  ******  A T  *******  D04  PDRYM 4000. DEACT	****** A ******  POTY 48. COVI	******* ******* ****** ******	***** **  **  **  **  **  **  **  **	RLIG	D
*****  **  **  **  **  **  **  **  **	******  ******  e must  pts and  IPER  0	*******  C R  ******  ******  be NCRO data r  PLAI 3.00	******* O P  *******  *******  *******  *******  ****	*********  D  *******  of D02-  DDMX 2500.	-1.0  ******  A T  *******  D04   PDRYM 4000.	****** A ****** POTY 48.	******* ******* ******* RDP 24.0	***** **  **  **  **  **  **  **  **	RLIG	D
*****  **  **  **  **  **  **  **  **	******  ******  ******  e must  pts and  IPER  0  PPCV  0.80	*******  C R  ******  ******  be NCRO data n  PLAI 3.00 TGBM 35.0	******** O P  ********  OP sets ecords DDEM 150.0 TGOP 80.0	********  D  *******  of D02-  DDMX 2500. CONVF 25.0	-1.0  *******  A T  *******  D04   PDRYM 4000.  DEACT 0.02	****** A ******  POTY 48. COVI	******* ******* ****** ******	***** **  **  **  **  **  **  **  **	RLIG	D D
*****  **  **  **  **  **  **  **  **	******  ******  ******  e must  pts and  IPER  O  PPCV  0.80  CFXN  0.0  IPER	*******  C R  ******  ******  be NCRO data 1  3.00 TGBM 35.0 PNO 0.02 PLAI	0 P  *******  O P  *******  DP sets ecords  DDEM  150.0  TGOP 80.0  PNF 0.012  DDEM	********  D  *******  of D02-  DDMX  2500.  CONVF  25.0  DKC  3.50  DDMX	-1.0  *******  A T  *******  D04  PDRYM 4000. DEACT 0.02 PNRAT 0.25 PDRYM	POTY 48. COVI 0.0	*******  ******  ******  RDP 24.0  DMINIT 0.0  RDP	*****  **  **  **  **  **  **  **  **	RLIG 0.10	D D
*****  **  **  **  **  **  **  **  **	******  ******  ******  e must  pts and  IPER  O  PPCV  0.80  CFXN  0.0  IPER  0	*******  C R  ******  ******  be NCRO I data 1  3.00  TGBM 35.0  PNO 0.02  PLAI 4.00	******** O P  *******  OP sets ecords  DDEM 150.0 TGOP 80.0 PNF 0.012 DDEM 150.0	********  D  *******  of D02-  DDMX 2500. CONVF 25.0 DKC 3.50 DMX 3600.	-1.0  *******  A T  *******  D04   PDRYM 4000. DEACT 0.02 PNRAT 0.25 PDRYM 9000.	POTY 48. COVI 0.0 POTY 2300.	*******  ******  ******  RDP 24.0  DMINIT 0.0  RDP 24.0	***** **  **  **  **  **  **  **  **	RLIG 0.10	D D D
*****  **  **  **  **  **  **  **  **	******  ******  ******  e must  pts and  OPCV  0.80  CFXN  0.0  IPER  0  PPCV	*******  C R  ******  ******  be NCRO I data 1  3.00  TGBM 35.0  PNO 0.02  PLAI 4.00  TGBM	0 P  *******  O P  *******  DP sets ecords  DDEM 150.0     TGOP  150.0     TGOP	********  D  *******  of D02-  DDMX  2500.  CONVF  25.0  DKC  3.50  DMX  3600.  CONVF	-1.0  *******  A T  *******  A T  *******  D04   PDRYM 4000. DEACT 0.02 PNRAT 0.025 PDRYM 9000. DEACT DEACT	POTY 48. COVI 0.0  POTY 2300. COVI	******  ******  ******  RDP 24.0  DMINIT 0.0  RDP 24.0  DMINIT	*****  **  **  **  **  **  **  **  **	RLIG 0.10	D D D
*****  **  **  **  **  **  **  **  **	******  ******  ******  e must  pts and  OPCV  0.80  CFXN  0.0  IPER  0  PPCV  0.60	*******  C R  ******  ******  be NCRO I data 1  3.00  TGBM 35.0  PNO 0.02  PLAI 4.00  TGBM 40.0	0 P  *******  O P  *******  DP sets ecords  DEM 150.0     TGOP 80.0 2    DDEM 150.0 TGOP 90.0	********  D  *******  of D02-  DDMX  2500.  CONVF  25.0  DKC  3.50  DMX  3600.  CONVF  20.0	-1.0  *******  A T  *******  A T  ******  D04   PDRYM 4000. DEACT 0.02 PNRAT 0.25 PDRYM 9000. DEACT 0.02	POTY 48. COVI 0.0 POTY 2300.	*******  ******  ******  RDP 24.0  DMINIT 0.0  RDP 24.0	*****  **  **  **  **  **  **  **  **	RLIG 0.10	D D D
*****  **  **  **  **  **  **  **  **	******  ******  ******  ******  e must  pts and  OPPCV  0.80  CFXN  0.0  IPER  0  PPCV  0.60  CFXN  CFXN	*******  C R  ******  ******  be NCRO data i  PLAI 3.00 TGBM 35.0 PNO 0.02 PLAI 4.00 TGBM 40.0 PNO	0 P  *******  O P  *******  DP sets ecords  DEM 150.0     TGOP 80.0     DDEM 150.0     TGOP 90.0     PNF	********  D  *******  of D02-  DDMX 2500. CONVF 25.0 DKC 3.50 DDMX 3600. CONVF 20.0 DKC	-1.0  *******  A T  *******  A T  *******  D04   PDRYM 4000. DEACT 0.02 PNRAT 0.25 PDRYM 9000. DEACT 0.02 PNRAT 0.02 PNRAT	POTY 48. COVI 0.0  POTY 2300. COVI	******  ******  ******  RDP 24.0  DMINIT 0.0  RDP 24.0  DMINIT	*****  **  **  **  **  **  **  **  **	RLIG 0.10	D D D
****  **  **  **  **  **  **  **  **	******  ******  ******  e must  pts and  OPCV  0.80  CFXN  0.0  IPER  0  PPCV  0.60	*******  C R  ******  ******  be NCRO I data 1  3.00  TGBM 35.0  PNO 0.02  PLAI 4.00  TGBM 40.0	0 P  *******  O P  *******  DP sets ecords  DEM 150.0     TGOP 80.0 2    DDEM 150.0 TGOP 90.0	********  D  *******  of D02-  DDMX  2500.  CONVF  25.0  DKC  3.50  DMX  3600.  CONVF  20.0	-1.0  *******  A T  *******  A T  ******  D04   PDRYM 4000. DEACT 0.02 PNRAT 0.25 PDRYM 9000. DEACT 0.02	POTY 48. COVI 0.0  POTY 2300. COVI	******  ******  ******  RDP 24.0  DMINIT 0.0  RDP 24.0  DMINIT	*****  **  **  **  **  **  **  **  **	RLIG 0.10 RLIG 0.10	D D D D D D
****  **  **  **  **  **  **  **  **	******  ******  ******  ******  e must  pts and   IPER  0  PPCV  0.80  CFXN  0.0  IPER  0  PPCV  0.60  CFXN  1.0	*******  C R  ******  ******  be NCRO data r  PLAI 3.00  TGBM 35.0  PNO 0.02  PLAI 4.00  TGBM 40.0  PNO 0.04	********  O P  *******  *******  ******  DP sets ecords  DDEM 150.0	********  D  *******  of D02-  DDMX  2500.  CONVF  25.0  DKC  3.50  DDMX  3600.  CONVF  20.0  DKC  3.50	-1.0  *******  A T  *******  A T  *******  D04   PDRYM 4000. DEACT 0.02 PNRAT 0.25 PDRYM 9000. DEACT 0.02 PNRAT 0.25	POTY 48. COVI 0.0  POTY 2300. COVI 0.0	*******  ******  ******  RDP 24.0  DMINIT 0.0  RDP 24.0  DMINIT 0.0	*****  **  **  **  **  **  **  **  **	RLIG 0.10 RLIG 0.10	D D D D D D D D D D D D D D D D D D D
*****  **  **  **  **  **  **  **  **	******  ******  ******  ******  e must  pts and  OPCV  0.80  CFXN  0.0  IPER  0  PPCV  0.60  CFXN  1.0  IPER	*******  C R  ******  ******  be NCRC  data 1  3.00  TGBM  35.0  PNO  0.02  PLAI  4.00  TGBM  40.0  PNO  0.04  PLAI	******** O P  *******  *******  ******  DP sets  ecords  DDEM  150.0  TGOP  80.0  PNF  0.012  DDEM  150.0  TGOP  90.0  PNF  0.018  DDEM	********  D  *******  of D02-  DDMX  2500.  CONVF  25.0  DKC  3.50  DDMX  3600.  CONVF  20.0  DKC  3.50  DMC  3.50  DMX	-1.0  *******  A T  *******  A T  *******  D04   PDRYM 4000. DEACT 0.02 PNRAT 0.25 PDRYM 9000. DEACT 0.02 PNRAT 0.25 PDRYM 0.25 PDRYM	POTY 48. COVI 0.0 POTY 480.	*******  ******  ******  RDP 24.0  DMINIT 0.0  RDP 24.0  DMINIT 0.0	*****  **  **  **  **  **  **  **  **	RLIG 0.10 RLIG 0.10	D D D D D

**** **  **  **	****** M A	PNO 0.05 ******* ********* N A *******	G E M	***** E N ****	T *****	* * * * * * * *				D04
NTL										201
11										E02
		be NTL E set if		pts and	d record	 ds 				
IDTIL	IDPL	NTYTL	RFT	PLOWD	EFTL	DFRW	WFRW			700
plntrye IDTIL	1 IDPL	1 NTYTL	20 RFT	0.0 PLOWD	0.10 EFTL	-1.0 DFRW	0.50 WFRW			E03
drilrye	1	2	.50	2.0	0.10	-1.0	0.50			E03
IDTIL	IDPL	NTYTL	RFT	PLOWD	EFTL	DFRW	WFRW			
plntsoy	2 IDPL	1 NTYTL	0.80 RFT	3.0 PLOWD	0.70 EFTL	8.0 DFRW	3.00 WFRW			E03
IDTIL	3	1	1.00	2.0	0.30	3.0	0.50			E03
IDTIL	IDPL	NTYTL	RFT	PLOWD	EFTL	DFRW	WFRW			
rolcult	0	2	0.50	2.0	0.70	4.0	3.00			E03
IDTIL sweep	IDPL 0	NTYTL 2	RFT 0.50	PLOWD 2.0	EFTL 0.70	DFRW -1.0	WFRW 3.00			E03
IDTIL	IDPL	NTYTL	RFT	PLOWD	EFTL	DFRW	WFRW			E03
DISK hr	0	4	1.50	4.0	0.50	1.0	0.50			E03
IDTIL	IDPL	NTYTL	RFT	PLOWD	EFTL	DFRW	WFRW			B03
cultiv IDTIL	0 IDPL	4 NTYTL	0.73 RFT	4.0 PLOWD	0.70 EFTL	5.0 DFRW	3.00 WFRW			E03
hvst ry	1	3	0.24	0.0	0.90	-0.1	0.50			E03
IDTIL	IDPL	NTYTL	RFT	PLOWD	EFTL	DFRW	WFRW			0.0
hvst sy IDTIL	2 IDPL	3 NTYTL	0.24 RFT	0.0 PLOWD	0.0 EFTL	-0.1 DFRW	3.00 WFRW			E03
hvst bl	3	3	0.24	0.0	0.90	-0.1	0.50			E03
NPST										
3										E04
		be NPST		f E05-E	E07 pro	mpts and	l record	ls 		
		DKSOIL								
TRIFLUR	.347 DKTEMP		600.	0.0	0.12	1.0	0.0	0.03	0.000	E05
DKTHE 0		ARRHC 0								E06
PLCON	PLDEP	PLCON		PLCON	PLDEP	PLCON	PLDEP	PLCON	PLDEP	200
0.029	0.39	0.028 DKSOIL	2.0	0.022		0.003			-00	E07
IDPST PARAO	.231		DKOC	PPWLF 0.0		PSOLUB 5.E05		BEXTR 0.03		E05
	DKTEMP		1.05/	0.0	5.50	J.EUJ	0.0	0.00	0.000	E03
0	0	0								E06
PLCON		PLCON	PLDEP			PLCON		PLCON	PLDEP	B03
8.2 IDPST	0.39	7.1 DKSOIL	2.0 DKOC	5.0 PPWLF	2.8 PINSLT	0.8 PSOLUB	o.U FWASH	BEXTR	RELP	E07
DIPHENA	.078	0.10	400.	0.0	1.00	260.	0.0	0.03	0.000	E05

```
DKTHE DKTEMP ARRHC
                                                   E06
PLCON PLDEP PLCON PLDEP PLCON PLDEP PLCON PLDEP
0.012 0.39 0.009 1.0 0.006 2.0 0.010 3.0 0.001 6.0
                                                   E07
 NMAN
  0
 There must be NMAN sets of E09 prompts and records (one blank set if NMAN=0)
 ______
     ATN ANH APHOS AOM
                                                   E09
NYROT
                                                   E10
  3
 $<del>\</del>
        ROTATION SCHEDULE
         There must be NYROT sets of
         E11-E17 prompts and records
 NTY
                                                   E11
 There must be NTY sets of E12 prompts and records (one blank set if NTY=0)
MO IDA KTILL
4 12 9
                                                    E12
MO IDA KTILL
5 22 7
                                                    E12
MO IDA KTILL
6 04 5
                                                    E12
MO IDA KTILL
6 15
                                                    E12
MO IDA KTILL
10 05
                                                    E12
MO IDA KTILL
11 7 10
                                                    E12
NFR
_____
There must be NFR sets of E14 prompts and records (one blank set if NFR=0)
______
MO IDA KAPPL FERN FERP FERA MATYP RATE DEPIN
5 22 0 9.4 17.2 9.4 0 0

MO IDA KAPPL FERN FERP FERA MATYP RATE DEPIN

6 04 0 11.1 19.6 11.1 0 0
                                                    E14
                                                    E14
NPEST
There must be NPEST sets of E16 prompts and records (one blank set if NPEST=0)
MO IDA KPEST IAPLIC QPEST FRACA FRACP DEPST
6 14 1 0 0.50 0.0 0.0 0.0
                                                    E16
MO IDA KPEST IAPLIC OPEST FRACA FRACP DEPST
6 14 2 0 1.37 0.0 0.0 0.0
                                                    E16
MO IDA KPEST IAPLIC QPEST FRACA FRACP DEPST
6 14 3 0 3.00 0.0 0.0 0.0
                                                    E16
 ______
E17 can be blank if no irrigation (IFIRR on A04 is 0)
IRRDY MO IDA NIRD AMIRR TIRR THIRR QIRR
```

												E17
	NTY 10		1974									E11
	There								blank s			
	IDA	KTILL										
1 MO	IDA	2 KTILL										E12
	IDA	9 KTILL										E12
5 MO	22 IDA	7 KTILL										E12
5 <b>M</b> O	28 IDA	5 KTILL										E12
5		3 KTILL										E12
6	13	5										E12
7		KTILL 5										E12
MO 10	18	KTILL 10										E12
MO 10	IDA 22	KTILL 7										E12
MO 10		KTILL 4										E12
	NFR 1											E13
— TP		muet bo	NED 00			nte and	record		 blank se			210
-	IDA											
5	22	KAPPL 0	FERN 7.6	FERP 13.4	FERA 7.6	MATYP 0	RATE 0	DEPIN				E14
N	PEST 3											E15
Th	ere m	ust be	NPEST S						blank s			=0)
	IDA		IAPLIC	QPEST	FRACA	FRACP	DEPST					
5 MO		1 KPEST			0.0 FRACA	0.0 FRACP						E16
5 MO	29 IDA	2 KPEST			0.0 FRACA		0.0 DEPST					E16
5		3		3.00	0.0	0.0	0.0					E16
E	17 ca	n be bl	ank if	no irr		(IFIRR	on A04	is 0)				
I	RRDY I	MO DA	NIRD	AMIRR	TIRR	THIRR	QIRR					p:17
	NTY		-									E17
	6	197 										E11 
	There	must b	e NTY s	sets of	E12 pro	mpts an	d recor	ds (one	blank s	et if 	NTY=0)	
MO 4		KTILL 11										E12
	IDA 13	KTILL 7										E12
		KTTT.T.										

```
5 28
                                                 E12
MO IDA KTILL
6 16
                                                  E12
MO IDA KTILL
                                                  E12
  9
MO IDA KTILL
                                                  E12
11 5
 NFR
  1
 ______
 There must be NFR sets of E14 prompts and records (one blank set if NFR=0)
 MO IDA KAPPL FERN FERP FERA MATYP RATE DEPIN
5 8 0 0.0 13.4 0.0 0
                                                  E14
NPEST
                                                  E15
There must be NPEST sets of E16 prompts and records (one blank set if NPEST=0)
______
MO IDA KPEST IAPLIC QPEST FRACA FRACP DEPST
5 27 1 0 0.50 0.0 0.0 0.0
                                                  E16
MO IDA KPEST IAPLIC OPEST FRACA FRACP DEPST
 5 27 2 0 1.37 0.0 0.0 0.0
                                                  E16
MO IDA KPEST IAPLIC QPEST FRACA FRACP DEPST
 5 27 3 0 3.00 0.0 0.0 0.0
                                                  E16
      _____
 E17 can be blank if no irrigation (IFIRR on A04 is 0)
 IRRDY MO IDA NIRD AMIRR TIRR THIRR QIRR
                                                  E17
 If IFDRAN on CO4 is 1, enter draintile data; otherwise zeroes or blank:
 DRSP DDIMP RCLM
 10.0 10.0 0.02
                                                  F.18
*****************
*************
**
**
         FIELD TOPOLOGY
                               **
****************
 ***************
The following F01-F10 set describes the
natural, unfurrowed topology (KL=1)
-----
 IFFIX ITOCH MULP XLP SLA PAR
 0 1 1 86.0 0.030 0.518
                                                  F01
  NPT
  1
                                                  F02
There must be NPT pairs of XSP SP values
If NPT>5, add a duplicate F03 prompt and record
     SP XSP SP XSP SP XSP
 XSP
                                  SP XSP
                                            SP
 1.00 0.03
                                                  F03
     XLFE RMNF SLRF PRFF
 XLFS
                                                  F04
```

NKP 0										F05
There m	ust be	NKP pai d a dupl	rs of X icate F	KS USK '06 prom	values pt and	record				
XKS	USK 0.24		USK 0.40	XKS	USK	XKS	USK	XKS	USK	F06
IFFIX 0	NUN 6	NEPH 0	XLC 262.0		ZCA 20.0	ARUP	TINIW	DINIT	PMN	F07
NPT 1										F08
		NPT pai a dupli				record				
XSP 1.00	SP 0.005	XSP	SP	XSP	SP	XSP	SP	XSP	SP	F09
XLFS	XLFE	RMNF	TAUCF	SLRF	PRFF					F10
IFFIX	NUN 1		XLC 172.0	SLA 0.03	ZCA 15.0	ARUP	WINIT	DINIT	PMN	F07
NPT 1										F08
		NPT pai a dupli				record				
XSP 1.00	SP 0.030	XSP	SP	XSP	SP	XSP	SP	XSP	SP	F09
XLFS 0.0	XLFE 172.0	RMNF 0.24	TAUCF 9.5	WIDFX 0.1						F10
									lanks or DPFR = 0	
IFFIX 0	ITOCH 0	MULP 2	XLP 262.0	SLA 0.005	PAR 3.110					F01
NPT 1										F02
		NPT pai a dupli				record				
XSP 1.00	SP 0.005	XSP	SP	XSP	SP	XSP	SP	XSP	SP	F03
XLFS	XLFE	RMNF	SLRF	PRFF						F04
NKP 0										F05
		NKP pai a dupli				record				
XKS 100.	USK 0.24	XKS 150.	USK 0.40	xks	USK	XKS	USK	XKS	USK	F06
IFFIX 1	NUN 1	NEPH 1	XLC 258.0	\$LA 0.030	ZCA 15.0	ARUP	WINIT	DINIT	PMN	F07

NPT 1										F08
There m	nust be >5, add	NPT pai a dupli	rs of ? .cate F(	KSP SP v )9 promp	values ot and :	record				
XSP 1.00	SP 0.030	XSP	SP	XSP	SP	XSP	SP	XSP	SP	
XLFS	XLFE 258.0	RMNF .24	TAUCF 9.5	WIDFX 0.1						F09 F10
If IF	POND (	on A04 i	s 1 ent	er pond	data;	otherwi	se zeroes	or blan	 k:	
IFOUTL 1	AV 15.0	BV 2000.0	CV 2.0	~ ac	EQ 2.05	ZQ 0.0	RLOSS 0.1			F11
* * * * * * * * * * * * * * * * * * *	*****	*****	*****	****	*****	*****	***			
**		ROSI				*****	****			
**	****	*****	*****	*****	*****	*****	* * * * * *			
******** NPS	*****	*****	*****	*****	*****	*****	***			
0										G01
There m	ust be 	NPS G03	prompt	s and re	ecords					
DPS .002 SSCLY	RHOP 2.60 SSSLT	PROSL 0.04 SSSND	FRASN 0.0 SSORG	FRASL 0.0	FRACL 1.0	FRORG 0.0				G02
0.0 ASLK	PRF	EKT1	EKT2	EKT3						G03
0.32	0.90	0.12	0.135	-1.0						G04

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_____
************
**
**
  METEOROLOGICAL
                    DATA
**********
*************
 TITLE: Enter one line of identifying information
Daily data 6/72-9/75, WATKINSVILLE P3
                                             H01
    ATX CVTX ACVTX TXMW 18.0 0.11 -.075 71.5
 73.0
                             TEMP GEN PARS
                                             H<sub>0</sub>2
  TN AMTN CVTN ACVTN
 51.5
    18.5 0.16 -.13
                                             H03
       RMW SEED
 RMD
    AR
450.0 175.0 269.0
                                 RAD GEN PARS
                                             H04
           0.0
 0.502 0.490 0.433 0.426 0.462 0.473 0.548 0.437 0.490 0.561 0.385 0.468
                                             H05
 0.261 0.291 0.286 0.247 0.188 0.258 0.318 0.208 0.163 0.119 0.207 0.258
                                             H06
 _____
  The monthly ALFG and BETG values may be
  blank if daily rainfall is not being
  generated (IFRBY on record A03 is not 2)
 0.718 0.727 0.689 0.723 0.728 0.765 0.681 0.711 0.661 0.622 0.668 0.743
                                             H07
 0.566 0.618 0.734 0.717 0.613 0.453 0.571 0.561 0.671 0.627 0.621 0.589
                                             H08
 H09
  The monthly temp values may be
  blank if IFT on record A04 is 0
 52.0 53.7 60.3 70.1 79.0 85.7 87.0 86.6 81.8 72.4 61.0 52.4
                                            H10
 37.3 38.4 42.5 50.2 60.0 67.5 70.7 69.8 64.3 52.4 41.5 37.1
                                            H11
  The monthly radiation values may be
  blank if IFT on record A04 is <2
 ______
 RA RA RA RA RA
                          RA
                             RA
                                 RA
218.0 290.0 380.0 488.0 533.0 562.0 532.0 508.0 416.0 344.0 268.0 211.0
                                            H12
 _____
 Pan coefficient can be blank unless radiation values
 contain evap pan data (IPAN on record A03 is 1)
 TP05
    TP6 COEFF
 2.38 4.88 1.2
                                            H13
***************
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**
**
       RAINFALL DATA
* *
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*****	*****	****	****	****	****	****	****	****			
72	0	0	0	0	0	0	0	0	0	0	1
72	0		0								2
72	0	0	0	0	0	0	0	0	Ô	Õ	3
(etc.)								•	•	v	

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Appendix C: Sample Parameter and Meteorology File Templates  $11\,$ 



Appendix D. Parameters of Weather Input:

Part 1, Tables of Monthly Statistics

(from Arlin Nicks, USDA-ARS, Durant, OK, and Clarence Richardson, USDA-ARS, Temple, TX; personal communication)

ALABAMA - B	IRMINGHAM	alato	deg)= 33.	.57 yrs=	62. el	ev (m)= '	185.9 tp	05(mm)= 7	1.1 tp6(	mm)= 152.4		
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.491	0.505	0.475	0.444	0.530	0.481	0.548	0.426	0.480	0.395	0.457	0.495
prw1(m)	0.264	0.299	0.285	0.245	0.183	0.220	0.307	0.265	0.175	0.144	0.213	0.267
alfg(m)	0.643	0.640	0.648	0.712	0.675	0.626	0.802	0.660	0.676	0.630	0.715	0.647
betg(m)	18.03	19.43	21.46	18.39	16.81	17.75	12.67	15.98	18.90	18.19	15.06	19.53
ri(m)	26.2	17.8	35.3	21.1	35.6	18.5	27.9	32.8	36.1	19.6	18.3	20.3
tamx(m)	13.1	14.6	18.5	23.3	27.5	31.5	32.3	32.2	30.2	24.9	17.8	13.4
tamn(m)	1.6	2.8	5.7	9.9	14.2	18.9	20.6	20.1	17.3	10.3	4.4	1.7
ra(m)	235.	294.	349.	476.	549.	548.	556.	520.	442.	370.	278.	204.
ALABAMA - M		alat(deg)		yrs= 16.	elev (	m) = 64.3	tp05(mr	m) = 88.6	tp6(mm)=	215.9		
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.419	0.483	0.514	0.340	0.419	0.547	0.593	0.515	0.538	0.444	0.375	0.493
prw1(m)	0.294	0.286	0.257	0.197	0.202	0.280	0.446	0.351	0.232	0.135	0.193	0.271
alfg(m)	0.577	0.629	0.556	0.512	0.644	0.623	0.713	0.686	0.548	0.645	0.613	0.624
betg(m)	19.46	20.73	24.61	36.42	22.91	20.29	17.70	19.66	28.17	16.74	15.95	22.71
ri(m)	21.6	25.7	61.5	63.0	71.1	36.1	37.3	35.6	40.4	36.8	53.3	23.6
tamx(m)	16.8	18.2	20.6	24.6	28.2	31.4	31.9	32.1	30.3	26.3	20.6	17.2
tamn(m)	6.2	7.3	9.9	13.9	17.8	21.4	22.2	22.2	20.4	14.9	9.1	6.6
ra(m)	250.	309.	364.	491.	564.	563.	571.	535.	457.	385.	293.	219.
ALABAMA - M	ONTGOMERY	alat(	deg) = 32.	.30 yrs=	85. el	ev (m)=	60.4 tp0	05(mm) = 7	4.9 tp6(	mm)= 171.4		
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.447	0.456	0.435	0.380	0.475	0.457	0.436	0.408	0.514	0.444	0.348	0.471
prw1(m)	0.269	0.289	0.262	0.219	0.185	0.220	0.317	0.264	0.166	0.117	0.175	0.279
alfg(m)	0.713	0.691	0.699	0.634	0.634	0.706	0.620	0.762	0.546	0.601	0.684	0.691
betg(m)	13.33	17.27	19.96	21.64	17.30	14.96	16.46	10.36	29 <b>.9</b> 5	19.48	15.72	17.45
ri(m)	18.8	33.5	26.2	27.9	31.8	31.0	39.9	41.9	39.6	25.4	24.4	11.7
tamx(m)	15.4	16.9	20.3	24.8	29.0	32.5	32.9	32.8	31.1	26.1	19.6	15.6
tamn(m)	3.7	4.8	7.5	11.5	15.9	20.4	21.7	21.5	19.0	12.2	6.2	3.7
ra(m)	245.	304.	359.	486.	559.	558.	566.	530.	452.	380.	288.	214.
ARIZONA - F	LAGSTAFF	alat(d	leg)= 35.1	13 yrs= '	16. ele	$\vee$ (m)=213	11.5 tp09	5(mm) = 50	.8 tp6(m	m)= 88.9		
									•			. (
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.558	0.470	0.483	apr 0.464	may 0.362	jun 0.490	jul 0.545	aug 0.515	sep 0.438	oct 0.470	0.495	0.536
prw2(m) prw1(m)	0.558 0.114	0.470 0.138	0.483 0.151	apr 0.464 0.127	may 0.362 0.073	jun 0.490 0.051	jul 0.545 0.254	aug 0.515 0.279	sep 0.438 0.132	oct 0.470 0.082	0.495 0.114	0.536 0.115
prw2(m) prw1(m) alfg(m)	0.558 0.114 0.895	0.470 0.138 0.889	0.483 0.151 0.854	apr 0.464 0.127 0.945	may 0.362 0.073 0.983	jun 0.490 0.051 0.592	jul 0.545 0.254 0.826	aug 0.515 0.279 0.782	sep 0.438 0.132 0.659	oct 0.470 0.082 0.811	0.495 0.114 0.689	0.536 0.115 0.729
prw2(m) prw1(m) alfg(m) betg(m)	0.558 0.114 0.895 8.31	0.470 0.138 0.889 7.42	0.483 0.151 0.854 8.08	apr 0.464 0.127 0.945 6.53	may 0.362 0.073 0.983 4.75	jun 0.490 0.051 0.592 10.74	jul 0.545 0.254 0.826 7.19	aug 0.515 0.279 0.782 8.23	sep 0.438 0.132 0.659 11.48	oct 0.470 0.082 0.811 8.81	0.495 0.114 0.689 11.07	0.536 0.115 0.729 12.95
prw2(m) prw1(m) alfg(m) betg(m) ri(m)	0.558 0.114 0.895 8.31 5.1	0.470 0.138 0.889 7.42 10.4	0.483 0.151 0.854 8.08 5.6	apr 0.464 0.127 0.945 6.53 6.6	may 0.362 0.073 0.983 4.75 5.3	jun 0.490 0.051 0.592 10.74 5.6	jul 0.545 0.254 0.826 7.19 27.9	aug 0.515 0.279 0.782 8.23 17.8	sep 0.438 0.132 0.659 11.48 10.2	oct 0.470 0.082 0.811 8.81 5.3	0.495 0.114 0.689 11.07 6.3	0.536 0.115 0.729 12.95 3.6
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	0.558 0.114 0.895 8.31 5.1 4.7	0.470 0.138 0.889 7.42 10.4 5.9	0.483 0.151 0.854 8.08 5.6 9.7	apr 0.464 0.127 0.945 6.53 6.6 14.8	may 0.362 0.073 0.983 4.75 5.3 19.9	jun 0.490 0.051 0.592 10.74 5.6 25.2	jul 0.545 0.254 0.826 7.19 27.9 27.4	aug 0.515 0.279 0.782 8.23 17.8 26.1	sep 0.438 0.132 0.659 11.48 10.2 23.7	oct 0.470 0.082 0.811 8.81 5.3 17.3	0.495 0.114 0.689 11.07 6.3 10.8	0.536 0.115 0.729 12.95 3.6 6.6
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m)	0.558 0.114 0.895 8.31 5.1 4.7	0.470 0.138 0.889 7.42 10.4 5.9 -8.6	0.483 0.151 0.854 8.08 5.6 9.7	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2	may 0.362 0.073 0.983 4.75 5.3 19.9	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3	sep 0.438 0.132 0.659 11.48 10.2 23.7 5.7	oct 0.470 0.082 0.811 8.81 5.3 17.3	0.495 0.114 0.689 11.07 6.3 10.8 -6.3	0.536 0.115 0.729 12.95 3.6 6.6 -8.4
<pre>prw2(m) prw1(m) alfg(m) betg(m)     ri(m) tamx(m) tamn(m) ra(m)</pre>	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291.	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399.	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516.	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628.	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714.	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729.	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648.	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603.	sep 0.438 0.132 0.659 11.48 10.2 23.7 5.7	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439.	0.495 0.114 0.689 11.07 6.3 10.8	0.536 0.115 0.729 12.95 3.6 6.6
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) ARIZONA - P	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516.	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714.	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340.	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648.	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603.	sep 0.438 0.132 0.659 11.48 10.2 23.7 5.7 556. tp6(mm)	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439.	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334.	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271.
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamm(m) ra(m) ARIZONA - P month	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516.	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28. apr	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. jun	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648. 5 tp05(n	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. mm)= 54.6	sep 0.438 0.132 0.659 11.48 10.2 23.7 5.7 556. tp6(mm) sep	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334.	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271.
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamm(m) ra(m) ARIZONA - P month prw2(m)	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan 0.407	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg feb 0.478	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516. 0)= 33.43 mar 0.364	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28 apr 0.303	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may 0.294	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. jun 0.313	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648. 5 tp05(n jul 0.366	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. mm)= 54.6 aug 0.318	sep 0.438 0.132 0.659 11.48 10.2 23.7 5.7 5.6 tp6(mm) sep 0.429	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct 0.354	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334.	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271. dec 0.400
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) ARIZONA - P month prw2(m) prw1(m)	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan 0.407 0.085	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg feb 0.478 0.077	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516. 0)= 33.43 mar 0.364 0.070	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28 apr 0.303 0.042	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may 0.294 0.018	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. jun 0.313 0.022	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648. 5 tp05(n jul 0.366 0.099	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. mm)= 54.6 aug 0.318 0.147	sep 0.438 0.132 0.659 11.48 10.2 23.7 5.7 556. tp6(mm) sep 0.429 0.057	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct 0.354 0.054	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334. nov 0.327 0.060	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271. dec 0.400 0.078
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) ARIZONA - P month prw2(m) prw1(m) alfg(m)	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan 0.407 0.085 0.825	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg feb 0.478 0.077 0.822	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516. 0)= 33.43 mar 0.364 0.070 1.031	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28 apr 0.303 0.042 0.883	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may 0.294 0.018 0.899	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. jun 0.313 0.022 0.629	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648. 5 tp05(n jul 0.366 0.099 0.752	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. nm)= 54.6 aug 0.318 0.147 0.650	sep 0.438 0.132 0.659 11.48 10.2 23.7 5.7 556. tp6(mm) sep 0.429 0.057 0.532	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct 0.354 0.054 0.680	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334. nov 0.327 0.060 0.917	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271. dec 0.400 0.078 0.746
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ARIZONA - P month prw2(m) prw1(m) alfg(m) betg(m)	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan 0.407 0.085 0.825 5.71	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg feb 0.478 0.077 0.822 4.62	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516. 1)= 33.43 mar 0.364 0.070 1.031 5.97	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28 apr 0.303 0.042 0.883 5.05	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may 0.294 0.018 0.899 3.56	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. jun 0.313 0.022 0.629 6.88	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648. 5 tp05(n jul 0.366 0.099 0.752 5.92	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. nm)= 54.6 aug 0.318 0.147 0.650 8.51	sep 0.438 0.132 0.659 11.48 10.2 23.7 5.7 556. tp6(mm) sep 0.429 0.057 0.532 11.73	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct 0.354 0.054 0.680 7.87	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334. nov 0.327 0.060 0.917 5.59	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271. dec 0.400 0.078 0.746 8.20
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ARIZONA - P month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan 0.407 0.085 0.825 5.71 6.1	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg feb 0.478 0.077 0.822 4.62 5.8	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516. 1)= 33.43 mar 0.364 0.070 1.031 5.97 8.6	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28 apr 0.303 0.042 0.883 5.05 4.6	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may 0.294 0.018 0.899 3.56 15.0	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. 0.313 0.022 0.629 6.88 2.5	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648. 5 tp05(n jul 0.366 0.099 0.752 5.92 24.1	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. 603. aug 0.318 0.147 0.650 8.51 31.2	sep 0.438 0.132 0.659 11.48 10.2 23.7 5.7 556. tp6(mm) sep 0.429 0.057 0.532 11.73 8.4	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct 0.354 0.054 0.680 7.87 5.6	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334. nov 0.327 0.060 0.917 5.59 6.1	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271. dec 0.400 0.078 0.746 8.20 9.1
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ARIZONA - P month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan 0.407 0.085 0.825 5.71 6.1 17.8	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg feb 0.478 0.077 0.822 4.62 5.8 20.1	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516. 1)= 33.43 mar 0.364 0.070 1.031 5.97 8.6 23.9	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28 apr 0.303 0.042 0.883 5.05 4.6 28.8	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may 0.294 0.018 0.899 3.56 15.0 33.8	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. jun 0.313 0.022 0.629 6.88 2.5 38.7	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648. 5 tp05(n jul 0.366 0.099 0.752 5.92 24.1 40.3	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. nm)= 54.6 aug 0.318 0.147 0.650 8.51 31.2 38.7	sep 0.438 0.132 0.659 11.48 10.2 23.7 556. tp6(mm) sep 0.429 0.057 0.532 11.73 8.4 36.8	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct 0.354 0.054 0.680 7.87 5.6 30.4	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334. nov 0.327 0.060 0.917 5.59 6.1 23.2	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271. dec 0.400 0.078 0.746 8.20 9.1 18.9
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamxn(m) ra(m) ARIZONA - P month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m)	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan 0.407 0.085 0.825 5.71 6.1 17.8 1.8	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg feb 0.478 0.077 0.822 4.62 5.8 20.1 3.8	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516. 9:33.43 mar 0.364 0.070 1.031 5.97 8.6 23.9 6.1	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28 apr 0.303 0.042 0.883 5.05 4.6 28.8 10.2	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may 0.294 0.018 0.899 3.56 15.0 33.8 13.9	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. jun 0.313 0.022 0.629 6.88 2.5 38.7 18.6	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648. 5 tp05(n jul 0.366 0.099 0.752 5.92 24.1 40.3 23.9	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. nm)= 54.6 aug 0.318 0.147 0.650 8.51 31.2 38.7 23.0	sep 0.438 0.132 0.659 11.48 10.2 23.7 5.7 556. tp6(mm) sep 0.429 0.057 0.532 11.73 8.4 36.8 19.6	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct 0.354 0.054 0.680 7.87 5.6 30.4 12.6	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334. nov 0.327 0.060 0.917 5.59 6.1 23.2 5.8	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271. dec 0.400 0.078 0.746 8.20 9.1 18.9 2.8
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ARIZONA - P month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m)	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan 0.407 0.085 0.825 5.71 6.1 17.8 1.8 301.	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg feb 0.478 0.077 0.822 4.62 5.8 20.1 3.8 409.	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516. 1)= 33.43 mar 0.364 0.070 1.031 5.97 8.6 23.9 6.1 526.	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28 apr 0.303 0.042 0.883 5.05 4.6 28.8 10.2 638.	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may 0.294 0.018 0.899 3.56 15.0 33.8 13.9 724.	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. jun 0.313 0.022 0.629 6.88 2.5 38.7 18.6 739.	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648. 5 tp05(n jul 0.366 0.099 0.752 5.92 24.1 40.3 23.9 658.	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. mm)= 54.6 aug 0.318 0.147 0.650 8.51 31.2 38.7 23.0 613.	sep 0.438 0.132 0.659 11.48 10.2 23.7 556. tp6(mm) sep 0.429 0.057 0.532 11.73 8.4 36.8 19.6 566.	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct 0.354 0.680 7.87 5.6 30.4 12.6 449.	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334. nov 0.327 0.060 0.917 5.59 6.1 23.2	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271. dec 0.400 0.078 0.746 8.20 9.1 18.9
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) ra(m)  ARIZONA - P month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) ARIZONA - Y	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan 0.407 0.085 0.825 5.71 6.1 17.8 1.8 301.	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg feb 0.478 0.077 0.822 4.62 5.8 20.1 3.8 409. lat(deg)=	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516. 1)= 33.43 mar 0.364 0.070 1.031 5.97 8.6 23.9 6.1 526. 32.67 yr	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28 apr 0.303 0.042 0.883 5.05 4.6 28.8 10.2 638.	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may 0.294 0.018 0.899 3.56 15.0 33.8 13.9 724. elev (m)	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. jun 0.313 0.022 0.629 6.88 2.5 38.7 18.6 739.	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648. 5 tp05(m jul 0.366 0.099 0.752 5.92 24.1 40.3 23.9 658. tp05(mm)=	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. mm)= 54.6 aug 0.318 0.147 0.650 8.51 31.2 38.7 23.0 613.	sep 0.438 0.132 0.659 11.48 10.2 23.7 556. tp6(mm) sep 0.429 0.057 0.532 11.73 8.4 36.8 19.6 566.	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct 0.354 0.680 7.87 5.6 30.4 12.6 449.	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334. nov 0.327 0.060 0.917 5.59 6.1 23.2 5.8 344.	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271. dec 0.400 0.078 0.746 8.20 9.1 18.9 2.8 281.
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) ARIZONA - P month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ARIZONA - P month	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan 0.407 0.085 0.825 5.71 6.1 17.8 1.8 301. UMA	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg feb 0.478 0.077 0.822 4.62 5.8 20.1 3.8 409. lat(deg)= feb	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516. 0.364 0.070 1.031 5.97 8.6 23.9 6.1 526. 32.67 yr	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28. apr 0.303 0.042 0.883 5.05 4.6 28.8 10.2 638.	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may 0.294 0.018 0.899 3.56 15.0 33.8 13.9 724.	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. jun 0.313 0.022 0.629 6.88 2.5 38.7 18.6 739.	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648.5 tp05(m jul 0.366 0.099 0.752 5.92 24.1 40.3 23.9 658. tp05(mm)= jul	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. nm)= 54.6 aug 0.318 0.147 0.650 8.51 31.2 38.7 23.0 613.	sep 0.438 0.132 0.659 11.48 10.2 23.7 556. tp6(mm) sep 0.429 0.057 0.532 11.73 8.4 36.8 19.6 566.	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct 0.354 0.054 0.680 7.87 5.6 30.4 12.6 449.	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334. nov 0.327 0.060 0.917 5.59 6.1 23.2 5.8 344. nov	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271. dec 0.400 0.078 0.746 8.20 9.1 18.9 2.8 281. dec
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) ARIZONA - P month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ARIZONA - P month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) ra(m) ARIZONA - Y month prw2(m)	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan 0.407 0.085 0.825 5.71 6.1 17.8 301. UMA ai	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg feb 0.478 0.077 0.822 4.62 5.8 20.1 3.8 409. lat(deg)= feb 0.077	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516. 0.364 0.070 1.031 5.97 8.6 23.9 6.1 526. 32.67 yr	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28 apr 0.303 0.042 0.883 5.05 4.6 28.8 10.2 638. s= 15. apr 0.176	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may 0.294 0.018 0.899 3.56 15.0 33.8 13.9 724. elev (m)	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. jun 0.313 0.022 0.629 6.88 2.5 38.7 18.6 739.	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648. 5 tp05(m jul 0.366 0.099 0.752 5.92 24.1 40.3 23.9 658. tp05(mm)= jul 0.238	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. nm)= 54.6 aug 0.318 0.147 0.650 8.51 31.2 38.7 23.0 613. = 31.8 tp	sep 0.438 0.132 0.659 11.48 10.2 23.7 5.7 556. tp6(mm) sep 0.429 0.057 0.532 11.73 8.4 36.8 19.6 566.	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct 0.354 0.054 0.680 7.87 5.6 30.4 12.6 449. 52.2 oct 0.318	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334. nov 0.327 0.060 0.917 5.59 6.1 23.2 5.8 344. nov 0.222	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271. dec 0.400 0.078 0.746 8.20 9.1 18.9 2.8 281. dec 0.349
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ARIZONA - P month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) fam(m) ARIZONA - Y month prw2(m) prw1(m)	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan 0.407 0.085 0.825 5.71 6.1 17.8 301. UMA a jan 0.273 0.056	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg feb 0.478 0.077 0.822 4.62 5.8 20.1 3.8 409. lat(deg)= feb 0.077	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516. 0.364 0.070 1.031 5.97 8.6 23.9 6.1 526. 32.67 yr mar 0.250 0.041	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28 apr 0.303 0.042 0.883 5.05 4.6 28.8 10.2 638. s= 15. apr 0.176 0.024	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may 0.294 0.018 0.899 3.56 15.0 33.8 13.9 724. elev (m) may	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. jun 0.313 0.022 0.629 6.88 2.5 38.7 18.6 739. = 59.1 jun	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648. 5 tp05(m jul 0.366 0.099 0.752 5.92 24.1 40.3 23.9 658. tp05(mm)= jul 0.238 0.030	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. 603. 603. 603. 10.550 8.51 31.2 38.7 23.0 613. 10.552	sep 0.438 0.132 0.659 11.48 10.2 23.7 5.7 556. tp6(mm) sep 0.429 0.057 0.532 11.73 8.4 36.8 19.6 566. o6(mm)= sep 0.313 0.017	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct 0.354 0.054 0.680 7.87 5.6 30.4 12.6 449. 62.2 oct 0.318 0.025	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334. nov 0.327 0.060 0.917 5.59 6.1 23.2 5.8 344. nov 0.222 0.038	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271. dec 0.400 0.078 0.746 8.20 9.1 18.9 2.8 281. dec 0.349 0.047
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ARIZONA - P month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) ARIZONA - Y month prw2(m) prw1(m) alfg(m) alfg(m)	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan 0.407 0.085 0.825 5.71 6.1 17.8 1.8 301. UMA jan 0.273 0.056 0.841	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg feb 0.478 0.077 0.822 4.62 5.8 20.1 3.8 409. lat(deg)= feb 0.077 0.048 0.077	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516. 1)= 33.43 mar 0.364 0.070 1.031 5.97 8.6 23.9 6.1 526. 32.67 yr mar 0.250 0.041 1.077	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28 apr 0.303 0.042 0.883 5.05 4.6 28.8 10.2 638. s= 15. apr 0.176 0.024 0.517	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may 0.294 0.018 0.899 3.56 15.0 33.8 13.9 724. elev (m) may -	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. jun 0.313 0.022 0.629 6.88 2.5 38.7 18.6 739. = 59.1 jun	jul 0.545 0.254 0.826 7.19 27.4 9.8 648.5 tp05(m jul 0.366 0.099 0.752 5.92 24.1 40.3 23.9 658. tp05(mm)= jul 0.238 0.030 0.637	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. 603. 603. 10.147 0.650 8.51 31.2 38.7 23.0 613. 13.2 38.7 23.0 613. 13.2 38.7 23.0 613. 14.2 15.2 16.3 16	sep 0.438 0.132 0.659 11.48 10.2 23.7 556. tp6(mm) sep 0.429 0.057 0.532 11.73 8.4 36.8 19.6 566. (mm) = (math of the observable) 566.	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct 0.354 0.054 0.680 7.87 5.6 30.4 12.6 449. 62.2 oct 0.318 0.025 0.686	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334. nov 0.327 0.060 0.917 5.59 6.1 23.2 5.8 344. nov 0.222 0.038 0.624	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271. dec 0.400 0.078 0.746 8.20 9.1 18.9 2.8 281. dec 0.349 0.047 0.882
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamxn(m) ra(m) ARIZONA - P month prw2(m) prw1(m) alfg(m) tamx(m) tamx(m) tamx(m) ARIZONA - Y month prw2(m) prw1(m) alfg(m) prw1(m) alfg(m) betg(m)	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan 0.407 0.085 0.825 5.71 6.1 17.8 1.8 301. UMA jan 0.273 0.056 0.841 4.57	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg feb 0.478 0.077 0.822 4.62 5.8 20.1 3.8 409. lat(deg)= feb 0.077 0.0048 0.763 5.21	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516. 0.364 0.070 1.031 5.97 8.6 23.9 6.1 526. 32.67 yr mar 0.250 0.041 1.077 2.41	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28 apr 0.303 0.042 0.883 5.05 4.6 28.8 10.2 638. s= 15. apr 0.176 0.024 0.517 8.43	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may 0.294 0.018 0.899 3.56 15.0 33.8 13.9 724. elev (m) may 0.008 0.802 3.23	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. jun 0.313 0.022 0.629 6.88 2.5 38.7 18.6 739. = 59.1 jun	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648.5 tp05(m jul 0.366 0.099 0.752 5.92 24.1 40.3 23.9 658. tp05(mm)= jul 0.238 0.030 0.637 6.30	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. nm) = 54.6 aug 0.318 0.147 0.650 8.51 31.2 38.7 23.0 613. = 31.8 tr aug 0.211 0.052 0.670 6.43	sep 0.438 0.132 0.659 11.48 10.2 23.7 556. tp6(mm) sep 0.429 0.057 0.532 11.73 8.4 36.8 19.6 566. 06(mm)= sep 0.313 0.017 0.394 22.23	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct 0.354 0.054 0.680 7.87 5.6 30.4 12.6 449. 62.2 oct 0.318 0.025 0.686 8.31	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334. nov 0.327 0.060 0.917 5.59 6.1 23.2 5.8 344. nov 0.222 0.038 0.624 7.01	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271. dec 0.400 0.078 0.746 8.20 9.1 18.9 2.8 281. dec 0.349 0.047 0.882 5.00
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ARIZONA - P month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamx(m) tamn(m) ra(m) ARIZONA - Y month prw2(m) prw1(m) alfg(m) betg(m) prw1(m)	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan 0.407 0.085 0.825 5.71 6.1 17.8 1.8 301. UMA a jan 0.273 0.056 0.841 4.57 8.9	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg feb 0.478 0.077 0.822 4.62 5.8 20.1 3.8 409. lat(deg)= feb 0.077 0.048 0.077	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516. 0.364 0.070 1.031 5.97 8.6 23.9 6.1 526. 32.67 yr mar 0.250 0.041 1.077 2.41 5.6	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28 apr 0.303 0.042 0.883 5.05 4.6 28.8 10.2 638. rs= 15. apr 0.176 0.024 0.517 8.43 2.5	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may 0.294 0.018 0.899 3.56 15.0 33.8 13.9 724. elev (m) may - 0.008 0.802 3.23 2.3	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. jun 0.313 0.022 0.629 6.88 2.5 38.7 18.6 739. = 59.1 jun	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648. 5 tp05(m jul 0.366 0.099 0.752 5.92 24.1 40.3 23.9 658. tp05(mm)= jul 0.238 0.030 0.637 6.30 3.0	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. mn) = 54.6 aug 0.318 0.147 0.650 8.51 31.2 38.7 23.0 613. = 31.8 tr aug 0.211 0.052 0.670 6.43 25.4	sep 0.438 0.132 0.659 11.48 10.2 23.7 5.7 556. tp6(mm) sep 0.429 0.057 0.532 11.73 8.4 36.8 19.6 566. 06(mm) = 6 sep 0.313 0.017 0.394 22.23	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct 0.354 0.680 7.87 5.6 30.4 12.6 449. 62.2 oct 0.318 0.025 0.686 8.31 8.1	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334. nov 0.327 0.060 0.917 5.59 6.1 23.2 5.8 344. nov 0.222 0.038 0.624 7.01 3.6	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271. dec 0.400 0.078 0.746 8.20 9.1 18.9 2.8 281. dec 0.349 0.047 0.882 5.00 5.3
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m)  ARIZONA - P month prw2(m) prw1(m) alfg(m) betg(m) ra(m) ARIZONA - Y month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m)	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan 0.407 0.085 5.71 6.1 17.8 1.8 301. UMA a jan 0.273 0.056 0.841 4.57 8.9 20.7	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg feb 0.478 0.077 0.822 4.62 5.8 20.1 3.8 409. lat(deg)= feb 0.077 0.048 0.077 0.048 0.763 5.21 4.6 23.3	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516. 0.364 0.070 1.031 5.97 8.6 23.9 6.1 526. 32.67 yr mar 0.250 0.041 1.077 2.41 5.6 27.1	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28 apr 0.303 0.042 0.883 5.05 4.6 28.8 10.2 638. rs= 15. apr 0.176 0.024 0.517 8.43 2.5 31.3	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may 0.294 0.018 0.899 3.56 15.0 33.8 13.9 724. elev (m) may - 0.008 0.802 3.23 2.3 35.4	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. jun 0.313 0.022 0.629 6.88 2.5 38.7 18.6 739. = 59.1 jun -	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648. 5 tp05(m) 0.366 0.099 0.752 5.92 24.1 40.3 23.9 658. tp05(mm) = jul 0.238 0.030 0.637 6.30 3.0 42.3	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. mn) = 54.6 aug 0.318 0.147 0.650 8.51 31.2 38.7 23.0 613. = 31.8 ty aug 0.211 0.052 0.670 6.43 25.4 41.4	sep 0.438 0.132 0.659 11.48 10.2 23.7 5.7 556. tp6(mm) sep 0.429 0.057 0.532 11.73 8.4 36.8 19.6 566. o6(mm)= sep 0.313 0.017 0.394 22.23 3.6 39.7	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct 0.354 0.680 7.87 5.6 30.4 12.6 449. 62.2 oct 0.318 0.025 0.686 8.31 8.1 33.3	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334. nov 0.327 0.060 0.917 5.59 6.1 23.2 5.8 344. nov 0.222 0.038 0.624 7.01 3.6 25.9	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271. dec 0.400 0.078 0.746 8.20 9.1 18.9 2.8 281. dec 0.349 0.047 0.882 5.00 5.3 21.6
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ARIZONA - P month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamx(m) tamn(m) ra(m) ARIZONA - Y month prw2(m) prw1(m) alfg(m) betg(m) prw1(m) alfg(m)	0.558 0.114 0.895 8.31 5.1 4.7 -9.9 291. HOENIX jan 0.407 0.085 0.825 5.71 6.1 17.8 1.8 301. UMA a jan 0.273 0.056 0.841 4.57 8.9	0.470 0.138 0.889 7.42 10.4 5.9 -8.6 399. alat(deg feb 0.478 0.077 0.822 4.62 5.8 20.1 3.8 409. lat(deg)= feb 0.077 0.048 0.077	0.483 0.151 0.854 8.08 5.6 9.7 -5.8 516. 0.364 0.070 1.031 5.97 8.6 23.9 6.1 526. 32.67 yr mar 0.250 0.041 1.077 2.41 5.6	apr 0.464 0.127 0.945 6.53 6.6 14.8 -2.2 628. yrs= 28 apr 0.303 0.042 0.883 5.05 4.6 28.8 10.2 638. rs= 15. apr 0.176 0.024 0.517 8.43 2.5	may 0.362 0.073 0.983 4.75 5.3 19.9 1.1 714. elev may 0.294 0.018 0.899 3.56 15.0 33.8 13.9 724. elev (m) may - 0.008 0.802 3.23 2.3	jun 0.490 0.051 0.592 10.74 5.6 25.2 5.3 729. (m)= 340. jun 0.313 0.022 0.629 6.88 2.5 38.7 18.6 739. = 59.1 jun	jul 0.545 0.254 0.826 7.19 27.9 27.4 9.8 648. 5 tp05(m jul 0.366 0.099 0.752 5.92 24.1 40.3 23.9 658. tp05(mm)= jul 0.238 0.030 0.637 6.30 3.0	aug 0.515 0.279 0.782 8.23 17.8 26.1 9.3 603. mn) = 54.6 aug 0.318 0.147 0.650 8.51 31.2 38.7 23.0 613. = 31.8 tr aug 0.211 0.052 0.670 6.43 25.4	sep 0.438 0.132 0.659 11.48 10.2 23.7 5.7 556. tp6(mm) sep 0.429 0.057 0.532 11.73 8.4 36.8 19.6 566. 06(mm) = 6 sep 0.313 0.017 0.394 22.23	oct 0.470 0.082 0.811 8.81 5.3 17.3 -0.7 439. = 101.6 oct 0.354 0.680 7.87 5.6 30.4 12.6 449. 62.2 oct 0.318 0.025 0.686 8.31 8.1	0.495 0.114 0.689 11.07 6.3 10.8 -6.3 334. nov 0.327 0.060 0.917 5.59 6.1 23.2 5.8 344. nov 0.222 0.038 0.624 7.01 3.6	0.536 0.115 0.729 12.95 3.6 6.6 -8.4 271. dec 0.400 0.078 0.746 8.20 9.1 18.9 2.8 281. dec 0.349 0.047 0.882 5.00 5.3

ARKANSAS -	FORT SMITH		t(deg)= 35.	33 yrs	= 23.	elev (m)=	136.2 tp	05(mm)=	<b>78.7</b> tp6	(mm) = 163	.8	
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.426	0.444	0.394	0.479	0.445	0.407	0.421	0.341	0.432	0.366	0.423	0.444
prw1(m)	0.157	0.216	0.238	0.280	0.245	0.210	0.195	0.171	0.171	0.134	0.147	0.165
alfg(m)	0.655	0.701	0.719	0.709	0.658	0.632	0.590	0.650	0.752	0.625	0.638	0.719
betg(m)	11.35	12.73	14.58	15.85	20.22	17.12	19.35	18.54	15.34	24.28	20.40	13.56
ri(m)	8.1	21.1	25.1	23.4	36.6	30.5	23.9	25.4	35.6	22.9	29.0	15.7
tamx(m)	10.1	12.6	17.0	23.1	27.2	32.1	34.8	34.6	30.7	24.9	16.6	11.4
tamn(m)	-1.4	0.4	4.2	9.9	14.9	19.7	21.8	21.3	16.9	10.4	3.4	0.0
ra(m)	183.	255.	348.	441.	518.	554.	551.	513.	434.	338.	239.	182
ARKANSAS -			t(deg)= 34.			elev (m)=	78.3 tp			(mm)= ·153		· - <del>-</del>
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.489	0.437	0.500	0.498	0.500	0.480	0.401	0.383	0.396	0.367	0.392	0.462
prw1(m)	0.217	0.267	0.242	0.270	0.190	0.179	0.233	0.177	0.174	0.154	0.186	0.225
alfg(m)	0.619	0.681	0.790	0.686	0.554	0.651	0.703	0.581	0.624	0.659	0.633	0.665
betg(m)	17.75	17.98	14.33	18.54	27.69	16.87	15.24	18.03	23.09	15.95	20.90	17.63
ri(m)	13.7	16.8	21.6	29.2	25.9	32.3	38.4	36.8	31.8	26.9	21.3	9.1
tamx(m)	10.3	12.6	17.1	23.1	27.5	32.1	33.7	33.6	30.2	24.4	16.3	11.2
tamn(m)	-0.8	1.2	4.9	10.7	15.3	20.0	21.7	21.2	16.8	10.1	3.1	-0.2
ra(m)	188.	260.	353.	446.	523.	559.	556.	518.	439.	343.	244.	187.
CALIFORNIA			alat(deg)= :		yrs≈ 32.		m)= 144.8		)= 25.4	tp6(mm)=	53.3	107.
month	jan	feb	mar .	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.425	0.482	0.346	0.475	0.297	0.444	0.300	0.250	0.214	0.391	0.364	0.303
prw1(m)	0.132	0.132	0.130	0.095	0.039	0.008	0.010	0.006	0.019	0.022	0.082	0.117
alfg(m)	0.966	0.827	0.845	0.822	0.841	0.805	0.800	0.796	0.893	0.967	0.999	0.913
betg(m)	4.44	5.46	4.11	5.44	2.92	2.84	2.29	1.60	3.43	6.48	5.89	3.94
ri(m)	5.1	5.1	5.6	3.0	6.6	1.0	0.5	5.6	7.4	15.2	4.6	5.6
tamx(m)	14.1	17.2	20.7	24.3	29.2	33.4	37.9	36.5	33.2	27.2	20.3	15.0
tamn(m)	3.0	5.0	6.9	10.1	13.4	16.7	20.1	18.7	16.2	11.5	6.2	3.6
ra(m)	238.	326.	474.	549.	642.	700.	678.	645.	640.	438.	264.	207.
				39.28	vrs= 30			to05(mm			170.2	
CALIFORNIA	- BLUE CAN	YON	alat(deg)= :		yrs≃ 30. mav	elev (	m)=1609.3		)= 30.5	tp6(mm)=		dec
CALIFORNIA month	- BLUE CAN	YON feb	alat(deg)= : mar	apr	may	elev (i jun	m)=1609.3 jul	aug	)≈ 30.5 sep	tp6(mm)= oct	nov	dec 0.710
CALIFORNIA month prw2(m)	- BLUE CAN jan 0.731	YON feb 0.678	alat(deg)= : mar 0.663	арг 0.6 <b>31</b>	may 0.556	elev (1 jun 0.488	m)=1609.3 jul 0.067	aug 0.296	30.5 sep 0.370	tp6(mm)= oct 0.437	nov 0.628	0.710
CALIFORNIA month prw2(m) prw1(m)	- BLUE CAN jan 0.731 0.208	YON feb 0.678 0.213	alat(deg)= 3 mar 0.663 0.231	apr 0.631 0.184	may 0.556 0.155	elev ( jun 0.488 0.073	m)=1609.3 jul 0.067 0.025	aug 0.296 0.032	sep 0.370 0.054	tp6(mm)= oct 0.437 0.090	nov 0.628 0.200	0.710 0.174
CALIFORNIA month prw2(m) prw1(m) alfg(m)	- BLUE CAN jan 0.731 0.208 0.716	YON feb 0.678 0.213 0.808	alat(deg)= : mar 0.663 0.231 0.880	apr 0.631 0.184 0.721	may 0.556 0.155 0.798	elev ( jun 0.488 0.073 0.742	m)=1609.3 jul 0.067 0.025 0.996	aug 0.296 0.032 0.439	30.5 sep 0.370 0.054 0.600	tp6(mm)= oct 0.437 0.090 0.567	nov 0.628 0.200 0.710	0.710 0.174 0.791
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56	feb 0.678 0.213 0.808 26.75	alat(deg)= ; mar 0.663 0.231 0.880 20.27	apr 0.631 0.184 0.721 19.74	may 0.556 0.155 0.798 11.76	elev (1 jun 0.488 0.073 0.742 8.89	m)=1609.3 jul 0.067 0.025 0.996 1.78	aug 0.296 0.032 0.439 15.62	30.5 sep 0.370 0.054 0.600 11.58	tp6(mm)= oct 0.437 0.090 0.567 43.03	nov 0.628 0.200 0.710 30.18	0.710 0.174 0.791 36.37
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4	feb 0.678 0.213 0.808 26.75 6.1	alat(deg)= 1 mar 0.663 0.231 0.880 20.27 5.6	apr 0.631 0.184 0.721 19.74 5.8	may 0.556 0.155 0.798 11.76 6.1	elev (i jun 0.488 0.073 0.742 8.89 5.1	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9	aug 0.296 0.032 0.439 15.62 9.4	30.5 sep 0.370 0.054 0.600 11.58 6.9	tp6(mm)= oct 0.437 0.090 0.567 43.03 9.1	nov 0.628 0.200 0.710 30.18 6.3	0.710 0.174 0.791 36.37 7.1
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	- BLUE CAN' jan 0.731 0.208 0.716 40.56 9.4 6.4	YON feb 0.678 0.213 0.808 26.75 6.1 6.3	mar 0.663 0.231 0.880 20.27 5.6 7.9	apr 0.631 0.184 0.721 19.74 5.8 11.7	may 0.556 0.155 0.798 11.76 6.1 15.7	elev ( jun 0.488 0.073 0.742 8.89 5.1 19.6	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0	aug 0.296 0.032 0.439 15.62 9.4 24.8	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2	tp6(mm)= oct 0.437 0.090 0.567 43.03 9.1 16.8	nov 0.628 0.200 0.710 30.18 6.3 12.1	0.710 0.174 0.791 36.37 7.1 8.6
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7	alat(deg)= : mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7	elev ( jun 0.488 0.073 0.742 8.89 5.1 19.6	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 12.2	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1	0.710 0.174 0.791 36.37 7.1 8.6 0.6
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178.	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261.	alat(deg)= : mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394.	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532.	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7	elev (i jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698.	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686.	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616.	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 12.2 497.	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226.	0.710 0.174 0.791 36.37 7.1 8.6
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178.	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat(	alat(deg)= : mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg)= 40.80	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs=	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629.	elev (i jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m)=	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm)= 26	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 12.2 497.	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226.	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152.
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb	alat(deg)= : mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg)= 40.80	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629. 59. el.	elev (i jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m)= jun	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm)= 26	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 12.2 497. .7 tp6(n sep	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226.	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152.
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693	alat(deg)= : mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg)= 40.80 mar 0.724	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629. 59. et. may 0.518	elev ( jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m)= jun 0.398	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul 0.122	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm) = 26 aug 0.306	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 12.2 497. .7 tp6(n sep 0.397	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226.	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152. dec 0.718
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754 0.331	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693 0.265	alat(deg)= : mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg)= 40.80 mar 0.724 0.261	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615 0.209	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629. 59. et. may 0.518 0.167	elev (in jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m) = jun 0.398 0.128	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul 0.122 0.064	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm) = 26 aug 0.306 0.058	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 12.2 497. 7 tp6(n sep 0.397	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226. nov 0.691 0.272	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152. dec 0.718 0.266
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754 0.331 0.837	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693 0.265 0.758	alat(deg)= : mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg)= 40.80 mar 0.724 0.261 0.968	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615 0.209 0.777	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629. 59. et. may 0.518 0.167 0.743	elev (in jun ol. 488 ol. 0.073 ol. 742 ol. 8.89 ol. 10.6 ol. 698. ev (m) = jun ol. 398 ol. 128 ol. 777	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul 0.122 0.064 1.053	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm) = 26 aug 0.306 0.058 0.499	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 497. 7 tp6(n sep 0.397 0.095 0.651	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226. nov 0.691 0.272 0.719	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152. dec 0.718 0.266 0.877
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754 0.331 0.837 14.12	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693 0.265 0.758 12.85	alat(deg)= : mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg)= 40.80 mar 0.724 0.261 0.968 8.41	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615 0.209 0.777 9.12	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629. 59. el. may 0.518 0.167 0.743 7.49	elev (i jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m)= jun 0.398 0.128 0.777 3.81	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul 0.122 0.064 1.053 1.19	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm) = 26 aug 0.306 0.058 0.499 7.34	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 12.2 497. 7 tp6(n sep 0.397 0.095 0.651 6.99	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226. nov 0.691 0.272 0.719 15.80	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152. dec 0.718 0.266 0.877 12.95
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754 0.331 0.837 14.12 13.7	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693 0.265 0.758 12.85 20.6	alat(deg)= : mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg)= 40.80 mar 0.724 0.261 0.968 8.41 6.3	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615 0.209 0.777 9.12 4.6	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629. 59. el. may 0.518 0.167 0.743 7.49	elev (i jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m)= jun 0.398 0.128 0.777 3.81 6.6	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul 0.122 0.064 1.053 1.19 1.8	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm) = 26 aug 0.306 0.058 0.499 7.34	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 497. 7 tp6(n sep 0.397 0.095 0.651 6.99	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226. nov 0.691 0.272 0.719 15.80 13.2	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152. dec 0.718 0.266 0.877 12.95
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754 0.331 0.837 14.12 13.7 12.0	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693 0.265 0.758 12.85 20.6	alat(deg)= : mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg)= 40.80 mar 0.724 0.261 0.968 8.41 6.3 12.5	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615 0.209 0.777 9.12 4.6 13.2	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629. 59. el. may 0.518 0.167 0.743 7.49 5.6	elev (i jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m)= jun 0.398 0.128 0.128 0.777 3.81 6.6	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul 0.122 0.064 1.053 1.19 1.8 15.8	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm)= 26 aug 0.306 0.058 0.499 7.34 4.3 16.1	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 497. .7 tp6(n sep 0.397 0.095 0.651 6.99 11.4 16.4	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226. nov 0.691 0.272 0.719 15.80 13.2 14.2	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152. dec 0.718 0.266 0.877 12.95 14.0 12.8
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754 0.331 0.837 14.12 13.7 12.0 5.1	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693 0.265 0.758 12.85 20.6 12.3 5.6	alat(deg) = 1 mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg) = 40.80 mar 0.724 0.261 0.968 8.41 6.3 12.5 6.0	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615 0.209 0.777 9.12 4.6 13.2 7.3	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629. 59. et may 0.518 0.167 0.743 7.49 5.6 14.4 8.9	elev (i jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m)= jun 0.398 0.128 0.777 3.81 6.6 15.6 10.5	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul 0.122 0.064 1.053 1.19 1.8 15.8 11.1	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm) = 26 aug 0.306 0.058 0.499 7.34 4.3 16.1 11.4	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 12.2 497. .7 tp6(n sep 0.397 0.095 0.651 6.99 11.4 10.6	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226. nov 0.691 0.272 0.719 15.80 13.2 14.2 7.2	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152. dec 0.718 0.266 0.877 12.95 14.0 12.8 5.9
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754 0.331 0.837 14.12 13.7 12.0 5.1 149.	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693 0.265 0.758 12.85 20.6 12.3 5.6 249.	alat(deg) = 1 mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg) = 40.80 mar 0.724 0.261 0.968 8.41 6.3 12.5 6.0 346.	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615 0.209 0.777 9.12 4.6 13.2 7.3 498.	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629. 59. et. may 0.518 0.167 0.743 7.49 5.6 14.4 8.9	elev (in jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m) = jun 0.398 0.128 0.777 3.81 6.6 15.6 10.5 675.	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul 0.122 0.064 1.053 1.19 1.8 15.8 11.1 700.	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm) = 26 aug 0.306 0.058 0.499 7.34 4.3 16.1 11.4 614.	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 497. .7 tp6(n sep 0.397 0.095 0.651 6.99 11.4 16.4 10.6	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226. nov 0.691 0.272 0.719 15.80 13.2 14.2 7.2	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152. dec 0.718 0.266 0.877 12.95 14.0 12.8
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) CALIFORNIA	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754 0.331 0.837 14.12 13.7 12.0 5.1 149 FRESNO	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693 0.265 0.758 12.85 20.6 12.3 5.6 249. alat(	alat(deg) = 1 mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg) = 40.80 mar 0.724 0.261 0.968 8.41 6.3 12.5 6.0 346. deg) = 36.77	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615 0.209 0.777 9.12 4.6 13.2 7.3 498. yrs=	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629. 59. et. may 0.518 0.167 0.743 7.49 5.6 14.4 8.9 599.	elev (i jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m)= jun 0.398 0.128 0.777 3.81 6.6 15.6 10.5 675. ev (m)= 1	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul 0.122 0.064 1.053 1.19 1.8 15.8 11.1 700.	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm) = 26 aug 0.306 0.058 0.499 7.34 4.3 16.1 11.4 614. (mm) = 24	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 12.2 497. .7 tp6(n sep 0.397 0.095 0.651 6.99 11.4 16.4 10.6 452. .9 tp6(n	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226. nov 0.691 0.272 0.719 15.80 13.2 14.2 7.2	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152. dec 0.718 0.266 0.877 12.95 14.0 12.8 5.9 99.
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) california month	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754 0.331 0.837 14.12 13.7 12.0 5.1 149 FRESNO jan	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693 0.265 0.758 12.85 20.6 12.3 5.6 249. alat( feb	alat(deg) = 3 mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg) = 40.80 mar 0.724 0.261 0.968 8.41 6.3 12.5 6.0 346. deg) = 36.77 mar	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615 0.209 0.777 9.12 4.6 13.2 498. yrs= apr	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629. 59. el. may 0.518 0.167 0.743 7.49 5.6 14.4 8.9 599. 20. el.	elev (in jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m) = jun 0.398 0.128 0.777 3.81 6.6 15.6 10.5 675. ev (m) = 1 jun	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul 0.122 0.064 1.053 1.19 1.8 15.8 11.1 700. 00.0 tp05 jul	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm) = 26 aug 0.306 0.058 0.499 7.34 4.3 16.1 11.4 614. (mm) = 24 aug	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 497. .7 tp6(n sep 0.397 0.095 0.651 6.99 11.4 16.4 10.6 452. .9 tp6(n sep	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226. nov 0.691 0.272 0.719 15.80 13.2 14.2 7.2 174.	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152. dec 0.718 0.266 0.877 12.95 14.0 12.8 5.9 99.
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) CALIFORNIA month	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754 0.331 0.837 14.12 13.7 12.0 5.1 149 FRESNO jan 0.509	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693 0.265 0.758 12.85 20.6 12.3 5.6 249. alat( feb 0.519	alat(deg) = 1 mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg) = 40.80 mar 0.724 0.261 0.968 8.41 6.3 12.5 6.0 346. deg) = 36.77 mar 0.393	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615 0.209 0.777 9.12 4.6 13.2 7.3 498. yrs= apr 0.477	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629. 59. el. may 0.518 0.167 0.743 7.49 5.6 14.4 8.9 599. 20. el.	elev (in jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m) = jun 0.398 0.128 0.777 3.81 6.6 15.6 10.5 675. ev (m) = 1 jun 0.158	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul 0.122 0.064 1.053 1.19 1.8 15.8 11.1 700. 00.0 tp05 jul 0.160	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm) = 26 aug 0.306 0.058 0.499 7.34 4.3 16.1 11.4 614. (mm) = 24 aug 54.002	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 497. 7 tp6(n sep 0.397 0.095 0.651 6.99 11.4 10.6 452. 9 tp6(n sep 0.368	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226. nov 0.691 0.272 0.719 15.80 13.2 14.2 7.2 174.	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152. dec 0.718 0.266 0.877 12.95 14.0 12.8 5.9 99. dec 0.458
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) califorNIA califorNIA month	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754 0.331 0.837 14.12 13.7 12.0 5.1 149 FRESNO jan 0.509 0.172	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693 5.6 249. alat( feb 0.519 0.156	alat(deg) = 1 mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg) = 40.80 mar 0.724 0.261 0.968 8.41 6.3 12.5 6.0 346. deg) = 36.77 mar 0.393 0.140	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615 0.209 0.777 9.12 4.6 13.2 7.3 498. yrs= apr 0.477 0.105	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629. 59. el. may 0.518 0.167 0.743 7.49 5.6 14.4 8.9 599. 20. el. may 0.340 0.056	elev (i jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m)= jun 0.398 0.128 0.777 3.81 6.6 15.6 10.5 675. ev (m)= 1 jun 0.158 0.024	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul 0.122 0.064 1.053 1.19 1.8 15.8 11.1 700. 00.0 tp05 jul 0.160 0.010	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm) = 26 aug 0.306 0.058 0.499 7.34 4.3 16.1 11.4 (mm) = 24 aug 54.002 0.634	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 4977 tp6(n sep 0.397 0.095 0.651 6.99 11.4 16.4 10.6 4529 tp6(n sep 0.368 0.019	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226. nov 0.691 0.272 0.719 15.80 13.2 14.2 7.2 174.	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152. dec 0.718 0.266 0.877 12.95 14.0 12.8 5.9 99. dec 0.458 0.111
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754 0.331 0.837 14.12 13.7 12.0 5.1 149 FRESNO jan 0.509 0.172 0.724	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693 5.6 249. alat( feb 0.519 0.156 0.759	alat(deg) = 1 mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg) = 40.80 mar 0.724 0.261 0.968 8.41 6.3 12.5 6.0 346. deg) = 36.77 mar 0.393 0.140 0.852	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615 0.209 0.777 9.12 4.6 13.2 7.3 498. yrs= apr 0.477 0.105 0.752	may 0.556 0.155 0.798 11.76 6.1 15.7 6.29. 59. el. may 0.518 0.167 0.743 7.49 5.6 14.4 8.9 599. 20. el. may 0.340 0.056 1.044	elev (i jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m)= jun 0.398 0.128 0.777 3.81 6.6 15.6 10.5 675. ev (m)= 1 jun 0.158 0.024 1.087	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul 0.122 0.064 1.053 1.19 1.8 11.1 700. 00.0 tp05 jul 0.160 0.010 1.100	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm) = 26 aug 0.306 0.058 0.499 7.34 4.3 16.1 11.4 614. (mm) = 24 aug 54.002 0.634 0.000	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 497. 7 tp6(n sep 0.397 0.095 0.651 6.99 11.4 10.6 452. 9 tp6(n sep 0.368 0.019 0.847	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226. nov 0.691 0.272 0.719 15.80 13.2 14.2 7.2 174. nov 0.479 0.103 0.785	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152. dec 0.718 0.266 0.877 12.95 14.0 12.8 5.9 99. dec 0.458 0.111
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) tamx(m) tamx(m) califorNia califorNia month prw2(m) prw1(m) alfg(m) califorNia month prw2(m) califorNia month prw2(m) prw1(m) betg(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754 0.331 0.837 14.12 13.7 12.0 5.1 149 FRESNO jan 0.509 0.172 0.724 9.75	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693 0.265 0.758 12.85 20.6 12.3 5.6 249. alat( feb 0.519 0.156 0.759 8.46	alat(deg) = 1 mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg) = 40.80 mar 0.724 0.261 0.968 8.41 6.3 12.5 6.0 346. deg) = 36.77 mar 0.393 0.140 0.852 7.95	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615 0.209 0.777 9.12 4.6 13.2 7.3 498. yrs= apr 0.477 0.105 0.752 9.07	may 0.556 0.155 0.798 11.76 6.1 15.7 6.29. 59. el. may 0.518 0.167 0.743 7.49 5.6 14.4 8.9 599. 20. el. may 0.340 0.056 1.044 3.25	elev (i jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m)= jun 0.398 0.128 0.777 3.81 6.6 10.5 675. ev (m)= 1 jun 0.158 0.024 1.087 1.78	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul 0.122 0.064 1.053 1.19 1.8 15.8 11.1 700. 0.00 tp05 jul 0.160 0.010 1.100 2.29	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm) = 26 aug 0.306 0.058 0.499 7.34 4.3 16.1 11.4 614. (mm) = 24 aug 54.002 0.634 0.000 0.00	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 497. 7 tp6(n sep 0.397 0.095 0.651 6.99 11.4 16.4 10.6 452. 9 tp6(n sep 0.368 0.368 0.368	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226. nov 0.691 0.272 0.719 15.80 13.2 14.2 7.2 174. nov 0.479 0.479 0.785 8.08	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152. dec 0.718 0.266 0.877 12.95 14.0 12.8 5.9 99. dec 0.458 0.111 0.708 9.47
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ra(m) california month prw2(m) prw1(m) alfg(m) betg(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754 0.331 0.837 14.12 13.7 12.0 5.1 149 FRESNO jan 0.509 0.172 0.724 9.75 7.9	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693 0.265 0.758 12.3 5.6 249. alat( feb 0.519 0.156 0.759 8.46 5.8	alat(deg) = 1 mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg) = 40.80 mar 0.724 0.261 0.968 8.41 6.3 12.5 6.0 346. deg) = 36.77 mar 0.393 0.140 0.852 7.95 8.1	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615 0.207 9.12 4.6 13.2 7.3 498. yrs= apr 0.477 0.105 0.752 9.07 4.6	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629. 59. el. may 0.518 0.167 0.743 7.49 5.6 14.4 8.9 599. 20. el. may 0.340 0.056 1.044 3.25 2.3	elev (i jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m)= jun 0.398 0.128 0.777 3.81 6.6 10.5 675. ev (m)= 1 jun 0.158 0.024 1.78 2.5	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul 0.122 0.064 1.053 1.19 1.8 11.1 700. 00.0 tp05 jul 0.160 0.010 1.100 2.29 0.5	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm) = 26 aug 0.306 0.058 0.499 7.34 4.3 16.1 11.4 614. (mm) = 24 aug 54.002 0.634 0.058	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 497. 7 tp6(n sep 0.397 0.095 0.651 6.99 11.4 10.6 4529 tp6(n sep 0.368 0.019 0.847 5.66 4.8	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226. nov 0.691 0.272 0.719 15.80 13.2 14.2 7.2 174. nov 0.479 0.103 0.785 8.08 5.1	0.710 0.174 0.791 36.37 7.11 8.6 0.6 152. dec 0.718 0.266 0.877 12.95 14.0 12.8 5.9 99. dec 0.458 0.111 0.708 9.47
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) tamx(m) tamn(m) ra(m) california month prw2(m) prw1(m) alfg(m) betg(m) prw1(m) alfg(m) betg(m) tamx(m) tamx(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754 0.331 0.837 14.12 13.7 12.0 5.1 149 FRESNO jan 0.509 0.172 0.724 9.75 7.9 13.0	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693 0.265 0.758 12.85 20.6 12.3 5.6 249. alat( feb 0.519 0.156 0.759 8.46 5.8 16.3	alat(deg) = 1 mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg) = 40.80 mar 0.724 0.261 0.968 8.41 6.3 12.5 6.0 346. deg) = 36.77 mar 0.393 0.140 0.852 7.95 8.1 19.9	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615 0.207 9.12 4.6 13.2 7.3 498. yrs= apr 0.477 0.155 0.752 9.07 4.6 24.5	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629. 59. et. may 0.518 0.167 0.743 7.49 5.6 14.4 8.9 599. 20. et. may 0.340 0.056 1.044 3.25 2.3 29.2	elev (i jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m) = jun 0.398 0.128 0.777 3.81 6.6 10.5 675. ev (m) = 1 jun 0.158 0.024 1.087 1.78 2.5 33.4	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul 0.122 0.064 1.053 1.19 1.8 11.1 700. 00.0 tp05 jul 0.160 0.010 1.100 2.29 0.5 37.8	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm) = 26 aug 0.306 0.058 0.499 7.34 4.3 16.1 11.4 614. (mm) = 24 aug 54.002 0.634 0.000 0.000 1.5 36.4	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 497. 7 tp6(n sep 0.397 0.095 0.651 6.99 11.4 10.6 4529 tp6(n sep 0.368 0.019 0.368 33.4	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226. nov 0.691 0.272 0.719 15.80 13.2 14.2 7.2 174. nov 0.479 0.103 0.785 8.08 5.1 19.7	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152. dec 0.718 0.266 0.877 12.95 14.0 12.8 5.9 99. dec 0.458 0.111 0.708 9.47 10.2 13.6
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamn(m) ra(m) cALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamn(m) ra(m) california prw2(m) prw1(m) alfg(m) betg(m) prw1(m) alfg(m) betg(m) tamx(m) tamx(m) tamx(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754 0.331 0.837 14.12 13.7 12.0 5.1 149 FRESNO jan 0.509 0.172 0.724 9.75 7.9 13.0 2.6	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693 0.265 0.758 12.85 20.6 12.3 5.6 249. alat( feb 0.519 0.156 0.759 8.46 5.8 16.3 4.2	alat(deg) = 3 mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg) = 40.80 mar 0.724 0.261 0.968 8.41 6.3 12.5 6.0 346. deg) = 36.77 mar 0.393 0.140 0.852 7.95 8.1 19.9 5.6	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615 0.209 0.777 9.12 4.6 13.2 7.3 498. yrs= apr 0.477 0.105 0.752 9.07 4.6 24.5 8.0	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629. 59. el. may 0.518 0.167 0.743 7.49 5.6 14.4 8.9 599. 20. el. may 0.340 0.056 1.044 3.25 2.3 29.2 11.0	elev (i jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m) = jun 0.398 0.128 0.777 3.81 6.6 15.6 10.5 675. ev (m) = 1 jun 0.158 0.024 1.087 1.78 2.5 33.4 14.0	m)=1609.3	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm) = 26 aug 0.306 0.058 0.499 7.34 4.3 16.1 11.4 614. (mm) = 24 aug 54.002 0.634 0.000 0.00 1.5 36.4 15.6	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 12.2 497. 7 tp6(n sep 0.397 0.095 0.651 6.99 11.4 10.6 4529 tp6(n sep 0.368 0.019 0.847 5.66 4.8 33.4 13.5	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226. nov 0.691 0.272 0.719 15.80 13.2 14.2 7.2 174. nov 0.479 0.103 0.785 8.08 5.1 19.7	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152. dec 0.718 0.266 0.877 12.95 14.0 12.8 5.9 99. dec 0.458 0.111 0.708 9.47 10.2 13.6 3.1
CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamn(m) ra(m) CALIFORNIA month prw2(m) prw1(m) alfg(m) tamx(m) tamn(m) ra(m) california month prw2(m) prw1(m) alfg(m) betg(m) prw1(m) alfg(m) betg(m) tamx(m) tamx(m)	- BLUE CAN jan 0.731 0.208 0.716 40.56 9.4 6.4 -0.8 178 EUREKA jan 0.754 0.331 0.837 14.12 13.7 12.0 5.1 149 FRESNO jan 0.509 0.172 0.724 9.75 7.9 13.0	feb 0.678 0.213 0.808 26.75 6.1 6.3 -0.7 261. alat( feb 0.693 0.265 0.758 12.85 20.6 12.3 5.6 249. alat( feb 0.519 0.156 0.759 8.46 5.8 16.3	alat(deg) = 1 mar 0.663 0.231 0.880 20.27 5.6 7.9 0.4 394. deg) = 40.80 mar 0.724 0.261 0.968 8.41 6.3 12.5 6.0 346. deg) = 36.77 mar 0.393 0.140 0.852 7.95 8.1 19.9	apr 0.631 0.184 0.721 19.74 5.8 11.7 3.3 532. yrs= apr 0.615 0.207 9.12 4.6 13.2 7.3 498. yrs= apr 0.477 0.155 0.752 9.07 4.6 24.5	may 0.556 0.155 0.798 11.76 6.1 15.7 6.7 629. 59. et. may 0.518 0.167 0.743 7.49 5.6 14.4 8.9 599. 20. et. may 0.340 0.056 1.044 3.25 2.3 29.2	elev (i jun 0.488 0.073 0.742 8.89 5.1 19.6 10.6 698. ev (m) = jun 0.398 0.128 0.777 3.81 6.6 10.5 675. ev (m) = 1 jun 0.158 0.024 1.087 1.78 2.5 33.4	m)=1609.3 jul 0.067 0.025 0.996 1.78 6.9 25.0 15.0 686. 13.1 tp05 jul 0.122 0.064 1.053 1.19 1.8 11.1 700. 00.0 tp05 jul 0.160 0.010 1.100 2.29 0.5 37.8	aug 0.296 0.032 0.439 15.62 9.4 24.8 13.8 616. (mm) = 26 aug 0.306 0.058 0.499 7.34 4.3 16.1 11.4 614. (mm) = 24 aug 54.002 0.634 0.000 0.000 1.5 36.4	30.5 sep 0.370 0.054 0.600 11.58 6.9 22.2 497. 7 tp6(n sep 0.397 0.095 0.651 6.99 11.4 10.6 4529 tp6(n sep 0.368 0.019 0.368 33.4	tp6(mm)=	nov 0.628 0.200 0.710 30.18 6.3 12.1 3.1 226. nov 0.691 0.272 0.719 15.80 13.2 14.2 7.2 174. nov 0.479 0.103 0.785 8.08 5.1 19.7	0.710 0.174 0.791 36.37 7.1 8.6 0.6 152. dec 0.718 0.266 0.877 12.95 14.0 12.8 5.9 99. dec 0.458 0.111 0.708 9.47 10.2 13.6

CALIFORNIA - SAM FRAKCISCO	CALIFORNIA	- CAN EDA	ucieco	alat/da	1)= 37 62	yrs= 33.	alav	(m)= 15.8	tp057	mm\= 31 8	tn6/mm\=	101 6	
pryst(m)	month					,					•		dec
													- 1
berg(m)   13,97   9,78   8,59   8,36   5,05   6,45   3,81   2,11   10,67   12,14   10,74   12,37   12,07   13,0   9,1   10,2   11,5   1,5   1,5   4,1   3,8   3,8   3,8   12,7   14,0   9,4   12,37   14,0   13,2   14,8   15,9   16,6   17,4   18,3   17,9   18,3   20,5   20,2   17,6   14,2   12,37   14,0   14,0   13,0   1,0   15,0   250.   350.   532.   592.   660.   672.   602.   451.   320.   224.   124.   10,6   8,6   12,0	prw1(m)	0.225	0.193	0.203	0.121	0.063	0.042	0.016	0.030	0.028	0.090	0.168	0.166
Territ	alfg(m)	0.725	0.762				0.512	0.900	0.769	0.486	0.535	0.702	0.761
tamm(m) 13.2 14.8 15.9 16.6 17.4 18.5 17.9 18.3 20.5 20.2 17.6 14.2 tamm(m) 7.5 8.5 9.2 9.7 10.7 11.7 11.8 12.2 12.8 12.4 10.6 8.6 CT (m) 150 250 350, 350, 352, 592, 660, 672, 602, 451, 32.0 224, 124. COLORADO SPRINKS alax(deg)= 38.82 yrs=19. elev (m)=1873, 0.pp5(m)=7.0 tpf(m)= 85.1 month jan feb mar apr may jum jul aug sep oct nov dec pru2(m) 0.098 0.123 0.173 0.159 0.232 0.235 0.400 0.253 0.4624 0.356 0.329 pru1(m) 0.098 0.123 0.173 0.159 0.232 0.235 0.400 0.253 0.140 0.111 0.098 0.087 alfg(m) 0.905 1.055 0.805 0.655 0.601 0.607 0.708 0.755 0.716 0.774 0.885 1.124 betg(m) 1.96 1.57 2.90 6.71 9.17 9.65 7.62 7.06 7.67 5.69 3.58 1.60 r/m, 2.3 0.8 3.8 7.4 18.8 37.6 19.3 50.8 20.1 77.7 4.3 1.0 tamx(m) 5.5 7.1 9.8 14.9 20.2 25.8 29.0 28.2 24.4 18.2 10.7 77.7 tamm(m) -9.3 -7.7 5.1 0.2 5.3 10.5 13.7 13.1 8.4 2.2 2.4 18.2 10.7 7.1 tamx(m) -9.3 -7.7 5.1 0.2 5.3 10.5 13.7 13.1 8.4 2.2 2.4 18.2 10.7 7.1 tamx(m) 0.423 0.423 0.424 0.403 0.403 0.403 0.403 0.423 0.424 0.403 0.4	betg(m)												
Team(m)   7.5													
COLORADO   150.   250.   350.   532.   592.   660.   672.   602.   672.   602.   651.   \$20.   224.   124.													
COLORADO - COLORADO SPRINGS   alar(cleg)= 38.82   yrs= 19.   elev (m)=1873. 0   tpO5(rmm)= 470.   tpO5(rmm)= 470.   decorpred(m)   0.333   0.400   0.467   0.456   0.530   0.487   0.521   0.559   0.423   0.424   0.366   0.329   prsIf(m)   0.098   0.0123   0.173   0.173   0.159   0.232   0.235   0.400   0.253   0.140   0.111   0.098   0.085   0.650   0.650   0.601   0.607   0.708   0.755   0.716   0.774   0.885   1.124   betg(m)   1.96   1.57   2.90   6.71   9.17   9.17   9.55   7.62   7.06   7.67   5.69   3.58   1.60   ri(m)   2.3   0.8   3.8   7.4   18.8   37.6   19.3   50.8   20.1   77.7   4.3   1.0													
month   jan   feb   mar   apr   mar   apr   mar   apr   jun   jul   aug   sep   oct   nov   dec   pru2(m)   0.0353   0.400   0.467   0.456   0.530   0.487   0.521   0.559   0.423   0.423   0.424   0.426   0.366   0.325   0.410   0.095   0.087   0.411   0.098   0.087   0.411													124.
pruZ(m) 0.333 0.400 0.467 0.456 0.530 0.487 0.521 0.559 0.423 0.424 0.366 0.329 pruI(m) 0.098 0.123 0.173 0.159 0.232 0.235 0.400 0.253 0.400 0.253 0.776 0.774 0.885 1.124 betg(m) 0.995 1.085 0.850 0.656 0.601 0.607 0.708 0.755 0.716 0.774 0.885 1.124 betg(m) 1.96 1.57 2.90 6.71 9.17 9.17 9.65 7.62 7.06 7.67 5.69 3.58 1.06 ri(m) 2.3 0.8 3.8 7.4 18.8 37.6 19.3 50.8 20.1 77.7 4.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0						*					•		dec
Design   D													
at 19 (m)   0.905   1.085   0.850   0.656   0.601   0.607   0.708   0.755   0.716   0.774   0.885   1.124     betg(m)   1.96   1.57   2.90   6.71   9.17   9.65   7.62   7.62   7.60   7.67   5.69   3.58   1.60     ri(m)   2.3   0.8   3.8   7.4   18.8   37.6   19.3   50.8   20.1   77.7   4.3   1.0     tamx(m)   5.5   7.1   9.8   14.9   20.2   25.8   29.0   28.2   24.4   18.2   10.7   7.1     tamm(m)   9.5   7.7   7.5   1   0.2   5.3   10.5   13.7   13.1   8.4   2.2   4.7   7.4     tamm(m)   206.   275.   406.   465.   465.   465.   530.   525.   444.   14.7   315.   527.   187.     COLORADO - DENVER   atatclesj = 39.75   yrs= 33.   elev (m)=1610.3   tp05(mm)= 45.7   tp6(mm)= 82.5     month   jan   feb   mar   apr   may   jun   jul   aug   sep   oct   nov   dec     prw1(m)   0.130   0.177   0.201   0.202   0.208   0.246   0.237   0.228   0.490   0.149   0.113   0.122   0.126     atfg(m)   0.781   0.833   0.790   0.655   0.611   0.637   0.634   0.600   0.693   0.690   0.948   1.080     betg(m)   3.00   3.86   4.55   7.42   11.51   7.49   8.46   7.06   7.42   7.92   79.98   2.18     ri(m)   1.8   3.6   3.3   4.8   8.4   10.4   17.5   31.5   11.7   4.1   3.6   3.0     tamx(m)   9.6   7.6   5.1   0.2   5.4   10.6   14.1   13.4   8.3   2.3   4.7   7.8     racm(m)   9.6   7.6   5.1   0.2   5.4   10.6   14.1   13.4   8.3   2.3   4.7   7.8     racm(m)   9.6   7.6   5.1   0.2   5.4   10.6   14.1   13.4   8.3   2.3   4.7   7.8     racm(m)   9.6   7.6   5.1   0.2   5.4   10.6   14.1   13.4   8.3   2.3   4.7   7.8     racm(m)   9.6   7.6   5.1   0.2   5.4   10.6   14.1   13.4   8.3   2.3   4.7   7.8     racm(m)   9.6   7.6   5.1   0.2   5.4   10.6   14.1   13.4   8.3   2.3   4.7   7.8     racm(m)   9.6   7.6   5.1   0.2   5.4   10.6   14.1   13.4   8.3   2.3   4.7   7.8     racm(m)   9.6   7.6   5.1   0.2   5.4   10.6   14.1   13.4   8.3   2.3   4.7   7.8     racm(m)   9.6   7.7   5.1   5.8   5.1   5.2   7.5   7.5   7.8   7.8     racm(m)   9.6   7.7   5.1   7.8   7.8   7.8   7.8   7.8   7.8   7.8   7.8   7.8   7.8   7.8   7													
betg(m) 1,96 1,57 2,90 6.71 9,17 9,65 7.62 7,06 7,67 5,69 3,58 1,60 en ri(m) 2,3 0.8 3.8 7.4 18.8 37.6 19.3 50.8 20.1 77.7 4.3 1.0 tamm(m) 5.5 7.1 9.8 14.9 20.2 25.8 29.0 28.2 24.4 18.2 10.7 7.1 tamm(m) -9.5 7.7 7.5 1 0.2 5.3 10.5 13.7 13.1 8.4 2.2 1.4 7.7 4.3 1.0 tamm(m) -9.5 7.7 7.5 1 0.2 5.3 10.5 13.7 13.1 8.4 2.2 1.4 7.7 7.4 1.3 1.0 tamm(m) -9.5 7.7 7.5 1 0.2 5.3 10.5 13.7 13.1 8.4 2.2 1.4 7.7 7.4 1.3 1.0 tamm(m) -9.5 7.7 7.5 1 0.2 5.3 10.5 13.7 13.1 8.4 2.2 1.4 17. 315. 527. 187. 187. 187. 187. 187. 187. 187. 18		0.905	1.085	0.850	0.656	0.601	0.607	0.708					2
tamm(m)	betg(m)	1.96	1.57	2.90	6.71	9.17	9.65	7.62	7.06	7.67		3.58	1.60
Team(m)	ri(m)												
COLORADO - DENVER   alat(deg) = 39.75   yrs= 33.   elev (m)=1610.3   tpoS(rmm) = 45.7   tpoS(rmm) = 82.5   tpoS(rmm) = 45.7   tpoS(rmm) = 45.7   tpoS(rmm) = 82.5   tpoS(rmm) = 45.7													1
COLORADO - DENVER   alar(deg) = 39.75   yrs = 33   elev   (m) = 1610.3   tpDS(rm) = 45.7   tpDs(rm) = 82.5   responsible   prW2(m)   0.423   0.384   0.503   0.483   0.540   0.443   0.435   0.373   0.419   0.408   0.427   0.394   prW1(m)   0.130   0.177   0.201   0.202   0.208   0.246   0.237   0.228   0.149   0.113   0.122   0.126   0.126   0.126   0.237   0.228   0.149   0.113   0.122   0.126   0.126   0.126   0.237   0.238   0.690   0.695   0.690   0.695   0.691   0.695   0.691   0.695   0.691   0.695   0.691   0.695   0.691   0.695   0.691   0.695   0.691   0.695   0.690   0.695													1
month   jan   feb   mar   apr   may   jun   jul   aug   sep   oct   nov   dec   d												527.	187.
PPHE(M)   0.423   0.384   0.503   0.483   0.540   0.443   0.435   0.373   0.449   0.408   0.427   0.394										•		2014	don
prix (m)   0.130   0.177   0.201   0.202   0.208   0.266   0.237   0.228   0.149   0.143   0.122   0.126     alfg(m)   0.781   0.853   0.790   0.655   0.611   0.637   0.634   0.600   0.693   0.690   0.948   1.080     betg(m)   3.00   3.86   4.55   7.42   11.51   7.49   8.46   7.06   7.42   7.92   7.92   79.98   2.18     r1(m)   1.8   3.6   3.3   4.8   8.4   10.4   17.5   31.5   11.7   4.1   3.6   3.0     tamx(m)   5.6   7.0   9.9   15.8   21.4   27.8   31.3   30.4   26.1   19.2   10.9   7.3     tamx(m)   5.6   7.0   9.9   15.8   21.4   27.8   31.3   30.4   26.1   19.2   10.9   7.3     tam(m)   9.6   7.6   -5.1   0.2   5.4   10.6   14.1   13.4   8.3   2.3   2.7   7.28     r1(m)   203   270   403   462   462   527   522   441   414   312   224   184     COLORADO - GRAND JUNCTION   alat(deg) = 39.12   yrs = 21   elev (m) = 1479.8   tp05(mm) = 32.3   tp6(mm) = 57.1     month   jam   feb   mar   apr   may   jun   jul   sug   sep   oct   nov   dec     prw2(m)   0.407   0.410   0.388   0.446   0.467   0.427   0.318   0.384   0.391   0.475   0.385   0.344     prw1(m)   0.173   0.183   0.179   0.168   0.107   0.086   0.114   0.184   0.136   0.107   0.127   0.169     alfg(m)   0.947   0.994   1.024   0.849   0.821   0.835   0.764   0.794   0.840   0.983   0.918   0.973     betg(m)   2.44   2.26   2.31   3.25   3.81   3.94   3.07   4.80   4.47   4.37   3.33   2.51     r1(m)   2.0   2.8   3.0   4.1   3.3   5.1   32.5   7.9   8.4   4.1   3.0   3.0     tamx(m)   1.6   5.4   11.6   18.3   24.1   29.9   33.6   31.7   27.3   19.7   9.7   3.4     tamm(m)   2.7   324   434   546   615   708   676   595   514   373   260   212     COLORADO - PUEBLO   alat(deg) = 38.28   yrs = 27   elev (m) = 1427.7   tp05(mm) = 48.3   tp6(mm) = 88.4     prw1(m)   0.104   0.113   0.136   0.116   0.172   0.180   0.246   0.230   0.143   0.092   0.093     prw1(m)   0.104   0.113   0.136   0.146   0.172   0.180   0.246   0.230   0.143   0.092   0.093     prw1(m)   0.465   0.441   0.455   0.404   0.455   0.417   0.301   0.370   0.417   0.301   0.370		-											1
elfg(m)   0.781   0.853   0.790   0.655   0.611   0.637   0.634   0.600   0.693   0.690   0.948   1.080     betg(m)   3.00   3.86   4.55   7.42   11.51   7.49   8.46   7.06   7.42   7.92   79.98   2.18     ri(m)   1.8   3.6   3.3   4.8   8.4   10.4   17.5   31.5   11.7   4.1   3.6   3.0     tamx(m)   5.6   7.0   9.9   15.8   21.4   27.8   31.3   30.4   26.1   19.2   10.9   7.3     tamx(m)   9.6   -7.6   -5.1   0.2   5.4   10.6   14.1   13.4   8.3   2.3   -4.7   -7.8     ra(m)   203.   270   403.   462   462   527   522   441   414   312   224   184     COLORADO - GRAND JUNCTION   alat(deg) = 39.12   yrs = 21   elev (m) = 1479.8   tp05(mm) = 32.3   tp6(mm)   57.1     month   jan   feb   mar   apr   may   jun   jul   aug   sep   oct   nov   dec     prMI(m)   0.407   0.410   0.388   0.404   0.476   0.427   0.318   0.384   0.391   0.475   0.385   0.344     prMI(m)   0.173   0.183   0.179   0.168   0.107   0.086   0.114   0.184   0.136   0.107   0.167   0.169     alfg(m)   0.947   0.994   1.024   0.849   0.821   0.835   0.764   0.794   0.840   0.983   0.918   0.973     betg(m)   2.44   2.26   2.31   3.25   3.81   3.94   3.07   4.80   4.47   4.37   3.33   2.51     ri(m)   2.0   2.8   3.0   4.1   3.3   3.1   3.2.5   7.9   8.4   4.1   3.0   3.0     tamx(m)   -8.3   -4.8   -1.0   4.2   9.4   13.7   17.7   16.7   12.4   5.9   -2.2   -6.7     ra(m)   227   324   434   546   615   708   676   595   514   373   260   212     COLORADO - PUEBLO   alat(deg) = 38.28   yrs = 27   elev (m) = 1427.7   tp05(mm) = 48.3     prMI(m)   0.103   0.362   0.411   0.455   0.404   0.455   0.417   0.370   0.417   0.301   0.372   0.292   0.435     prMI(m)   0.160   0.113   0.136   0.116   0.172   0.180   0.246   0.230   0.143   0.092   0.093   0.071     alfg(m)   0.935   1.138   0.966   0.634   0.650   0.693   0.720   0.615   0.661   0.719   0.939   0.928     betg(m)   1.68   1.45   2.54   8.31   8.18   5.77   7.47   8.79   6.25   8.18   3.58   2.31     ri(m)   0.8   1.0   4.8   11.7   19.3   34.3   21.1   30.2   51.1   21.5   2.0   2.0   3													
betg(m)   3.00   3.86   4.55   7.42   11.51   7.49   8.46   7.06   7.42   7.92   79.98   2.18     ri(m)   1.8   3.6   3.3   4.8   8.4   10.4   17.5   31.5   31.5   11.7   4.1   3.6   3.0     tamx(m)   5.6   7.0   9.9   15.8   21.4   27.8   31.3   30.4   26.1   19.2   10.9   7.3     tamx(m)   -9.6   -7.6   -5.1   0.2   5.4   10.6   14.1   13.4   8.3   2.3   -4.7   -7.8     ra(m)   203.   270.   403.   462.   462.   527.   522.   441.   414.   312.   224.   184.     COLORADO - GRAND JUNCTION   alat(deg)= 39.12   yrs= 21.   elev (m)=1479.8   tp05(mm)= 32.3   tp6(mm)= 57.1     month   jam   feb   mar   apr   may   jum   jul   aug   sep   oct   now   dec     prw2(m)   0.407   0.410   0.388   0.404   0.476   0.427   0.318   0.384   0.391   0.475   0.385   0.344     prw1(m)   0.173   0.183   0.179   0.168   0.107   0.086   0.114   0.184   0.136   0.107   0.127   0.169     alfg(m)   0.947   0.994   1.024   0.849   0.821   0.835   0.764   0.794   0.840   0.983   0.918   0.973     betg(m)   2.44   2.26   2.31   3.25   3.81   3.94   3.07   4.80   4.47   4.37   3.33   2.51     ri(m)   2.0   2.8   3.0   4.1   3.3   5.1   32.5   7.9   8.4   4.1   3.0   3.0     tamx(m)   1.6   5.4   11.6   18.3   24.1   29.9   33.6   31.7   27.3   19.7   9.7   3.4     tamn(m)   -8.3   -4.8   -1.0   4.2   9.4   13.7   17.7   16.7   12.4   5.9   -2.2   -6.7     ra(m)   227   324   434   546   615   708   676   595   514   373   260   212     month   jam   feb   mar   apr   may   jun   jun   jun   jun   gep   oct   now   dec     prw1(m)   0.104   0.113   0.136   0.116   0.172   0.180   0.693   0.720   0.615   0.661   0.719   0.939   0.928     betg(m)   0.68   1.0   4.8   11.7   19.3   34.3   31.4   32.1   28.1   21.6   13.2   9.3     tamx(m)   7.4   9.2   12.7   18.8   24.1   30.5   33.4   32.1   28.1   21.6   13.2   9.3     tamx(m)   7.4   9.2   12.7   18.8   24.1   30.5   33.4   32.1   28.1   21.6   13.2   9.3     tamx(m)   20.8   27.5   408   40.455   0.404   0.469   0.356   0.387   0.446   0.491   0.317   0.491     prw1(m)   0.104   0.113													
ri(m) 1.8 3.6 3.3 4.8 8.4 10.4 17.5 31.5 11.7 4.1 3.6 3.0 tamx(m) 5.6 7.0 9.9 15.8 21.4 27.8 31.3 30.4 26.1 19.2 10.9 7.3 tamr(m) -9.6 -7.6 -5.1 0.2 5.4 10.6 14.1 13.4 8.3 2.3 -4.7 -7.8 ra(m) 203. 270. 403. 462. 462. 527. 522. 441. 414. 312. 224. 184. COLORADO - GRAND JUNCTION alar(deg) = 39.12 yrs= 21. elev (m)=1479.8 tp05(mm)= 32.3 tp6(mm)= 57.1 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.407 0.410 0.388 0.404 0.476 0.427 0.318 0.384 0.391 0.475 0.385 0.344 prw1(m) 0.173 0.183 0.179 0.168 0.107 0.086 0.114 0.184 0.136 0.107 0.127 0.169 alfg(m) 0.947 0.994 1.024 0.849 0.821 0.835 0.764 0.794 0.840 0.893 0.918 0.973 betg(m) 2.44 2.26 2.31 3.25 3.81 3.94 3.07 4.80 4.47 4.37 3.33 2.51 ri(m) 2.0 2.8 3.0 4.1 3.3 5.1 32.5 7.9 8.4 4.1 3.0 3.0 tamx(m) 1.6 5.4 11.6 18.3 24.1 29.9 33.6 31.7 27.3 19.7 9.7 3.4 tamx(m) -8.3 -4.8 -1.0 4.2 9.4 13.7 17.7 16.7 12.4 5.9 -2.2 6.7 ra(m) 227. 324. 434. 546. 615. 708. 676. 595. 514. 373. 260. 212. COLORADO - PUEBLO alat(deg)= 38.28 yrs= 27. elev (m)=1427.7 tp05(mm)= 48.3 tp6(mm)= 88.4 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.362 0.411 0.455 0.404 0.455 0.417 0.370 0.417 0.301 0.372 0.292 0.435 prw1(m) 0.104 0.113 0.136 0.116 0.172 0.180 0.464 0.230 0.143 0.092 0.093 0.071 alfg(m) 0.935 1.138 0.966 0.634 0.650 0.693 0.720 0.615 0.661 0.719 0.939 0.928 betg(m) 1.68 1.68 1.65 2.54 8.31 8.18 5.77 7.47 8.79 6.25 8.18 3.58 2.31 ri(m) 0.8 1.0 4.8 11.7 19.3 34.3 21.1 30.2 5.1 23.3 2.0 0.30 tamx(m) 7.4 9.2 12.7 18.8 24.1 30.5 33.4 32.1 28.1 21.6 13.2 9.3 tamx(m) 7.4 9.2 12.7 18.8 24.1 30.5 33.4 32.1 28.1 21.6 13.2 9.3 tamx(m) 7.4 9.2 12.7 18.8 24.1 30.5 33.4 32.1 28.1 21.6 13.2 9.3 tamx(m) -9.6 -7.1 -3.7 1.9 7.7 0.412 0.499 0.356 0.387 0.444 0.421 0.513 0.495 prw1(m) 0.311 0.311 0.311 0.310 0.310 0.310 0.309 0.295 0.275 0.277 0.268 0.275 0.276 0.275 0.275 0.277 0.286 0.275 0.277 0.278 0.279 0.275 0.277 0.286 0.275 0.689 0.725 0.689 0.725 0.689 0.725 0.275 0.276 0.286 0.618 0.297 0.297 0.297 0.496 0.297 0.297 0.496 0.297 0.297 0.496 0.297 0.297 0.2													
tamm(m)	-	1.8	3.6	3.3	4.8		10.4	17.5	31.5	11.7	4.1	3.6	3.0
ra(m) 203. 270. 403. 462. 462. 527. 522. 441. 414. 312. 224. 184. COLORADO - GRAND JUNCTION alat(deg)= 39.12 yrs= 21. elev (m)=1479.8 tp05(mm)= 32.3 tp6(mm)= 57.1 month jan feb mar apr may jun jul aug sep oct nov dec pruZ(m) 0.407 0.410 0.388 0.404 0.476 0.427 0.318 0.384 0.391 0.475 0.385 0.344 pruI(m) 0.173 0.183 0.179 0.168 0.107 0.086 0.114 0.184 0.136 0.107 0.127 0.169 alfg(m) 0.947 0.994 1.024 0.849 0.821 0.835 0.764 0.794 0.840 0.983 0.918 0.973 betg(m) 2.44 2.26 2.31 3.25 3.81 3.94 3.07 4.80 4.47 4.37 3.33 2.51 ri(m) 2.0 2.8 3.0 4.1 3.3 5.1 32.5 7.9 8.4 4.1 3.0 3.0 tamx(m) 1.6 5.4 11.6 18.3 24.1 29.9 33.6 31.7 27.3 19.7 9.7 3.4 tamn(m) -8.3 -4.8 -1.0 4.2 9.4 13.7 17.7 16.7 12.4 5.9 -2.2 -6.7 ra(m) 227. 324 434. 546 615. 708. 676. 595. 514. 373. 260. 212. COLORADO - PUEBLO alat(deg)= 38.28 yrs= 27. elev (m)=1427.7 tp05(mm)= 48.3 tp6(mm)= 88.4 month jan feb mar apr may jun jul aug sep oct nov dec pruZ(m) 0.362 0.411 0.455 0.404 0.455 0.417 0.370 0.417 0.301 0.372 0.292 0.435 pruI(m) 0.104 0.113 0.136 0.116 0.172 0.180 0.246 0.230 0.143 0.092 0.093 0.071 alfg(m) 0.935 1.138 0.966 0.634 0.650 0.653 0.720 0.615 0.661 0.719 0.939 0.928 betg(m) 1.68 1.45 2.54 8.31 8.18 5.77 7.47 8.79 6.25 8.18 3.58 2.31 ri(m) 0.8 1.0 4.8 11.7 19.3 34.3 21.1 30.2 5.1 2.3 2.0 3.0 tamx(m) 7.4 9.2 12.7 18.8 24.1 30.5 33.4 32.1 28.1 21.6 13.2 9.3 tamx(m) 7.4 9.2 12.7 18.8 24.1 30.5 33.4 32.1 28.1 21.6 13.2 9.3 tamx(m) 7.4 9.2 12.7 18.8 24.1 30.5 33.4 32.1 28.1 21.6 13.2 9.3 tamx(m) 7.4 9.2 12.7 18.8 24.1 30.5 33.4 32.1 28.1 21.6 13.2 9.3 tamx(m) 7.6 7.1 6.6 14.7 16.0 14.7 36.1 33.0 2.95 0.556 0.641 0.687 0.699 0.725 0.275 0.274 0.236 0.182 0.297 0.297 0.497 0.301 0.701 0.700 0.	tamx(m)	5.6	7.0	9.9	15.8		27.8	31.3	30.4	26.1			
COLORADO - GRAND JUNCTION   alat(deg)= 39.12   yrs= 21.   elev (m)=1479.8   tp05(mm)= 32.3   tp6(mm)= 57.1   month   jan   feb   mar   apr   may   jun   jul   aug   sep   oct   nov   dec   d	tamn(m)												11
month   jan   feb   mar   apr   may   jun   jul   aug   sep   oct   nov   dec   pru2(m)   0.407   0.410   0.388   0.404   0.476   0.427   0.318   0.384   0.391   0.475   0.385   0.344   pru1(m)   0.173   0.183   0.179   0.168   0.107   0.086   0.114   0.184   0.136   0.107   0.127   0.169   alfg(m)   0.947   0.994   1.024   0.849   0.821   0.835   0.764   0.794   0.840   0.983   0.918   0.973   betg(m)   2.44   2.26   2.31   3.25   3.81   3.94   3.07   4.80   4.47   4.37   3.33   2.51   ri(m)   2.0   2.8   3.0   4.1   3.3   5.1   32.5   7.9   8.4   4.1   3.0   3.0   3.0   tamx(m)   1.6   5.4   11.6   18.3   24.1   29.9   33.6   31.7   27.3   19.7   9.7   3.4   tamx(m)   -8.3   -4.8   -1.0   4.2   9.4   13.7   17.7   16.7   12.4   5.9   -2.2   -6.7   ra(m)   227   324   434   546   615   708   676   595   514   373   260   212													184.
pru2(m)						,							
PPW1(m)								-	_				
alfg(m) 0.947 0.994 1.024 0.849 0.821 0.835 0.764 0.794 0.840 0.983 0.918 0.973 betg(m) 2.44 2.26 2.31 3.25 3.81 3.94 3.07 4.80 4.47 4.37 3.33 2.51 ri(m) 2.0 2.8 3.0 4.1 3.3 5.1 32.5 7.9 8.4 4.1 3.0 3.0 tamw(m) 1.6 5.4 11.6 18.3 24.1 29.9 33.6 31.7 27.3 19.7 9.7 3.4 tamm(m) -8.3 -4.8 -1.0 4.2 9.4 13.7 17.7 16.7 12.4 5.9 -2.2 -6.7 ra(m) 227. 324 434. 546. 615. 708. 676. 595. 514. 373. 260. 212. COLORADO - PUEBLO alat(deg)= 38.28 yrs= 27. elev (m)=1427.7 tp05(mm)= 48.3 tp6(mm)= 88.4 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.362 0.411 0.455 0.404 0.455 0.417 0.370 0.417 0.301 0.372 0.292 0.435 prw1(m) 0.104 0.113 0.136 0.116 0.172 0.180 0.246 0.230 0.143 0.092 0.093 0.071 alfg(m) 0.935 1.138 0.966 0.634 0.650 0.693 0.720 0.615 0.661 0.719 0.939 0.928 betg(m) 1.68 1.45 2.54 8.31 8.18 5.77 7.47 8.79 6.25 8.18 3.58 2.31 ri(m) 0.8 1.0 4.8 11.7 19.3 34.3 21.1 30.2 5.1 28.1 21.6 13.2 9.3 tamm(m) -9.6 -7.1 -3.7 1.9 7.7 12.9 16.0 15.3 10.3 3.7 -4.3 -8.0 ra(m) 208. 275. 408. 467. 467. 532. 527. 446. 419. 317. 529. 189. CONNECTICUT - MARTFORD (WINDSOR LOCKS) month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.406 0.454 0.445 0.475 0.412 0.469 0.356 0.387 0.444 0.421 0.513 0.493 prw1(m) 0.311 0.311 0.301 0.310 0.309 0.295 0.275 0.667 0.702 0.594 0.236 0.182 0.297 0.297 alfg(m) 0.780 0.650 0.755 0.689 0.725 0.667 0.702 0.595 0.575 0.641 0.687 0.695 0.693 0.275 0.469 0.356 0.387 0.444 0.421 0.513 0.493 prw1(m) 0.311 0.311 0.301 0.301 0.309 0.295 0.667 0.702 0.595 0.596 0.641 0.687 0.695 0.697 0.702 0.595 0.595 0.689 0.725 0.667 0.702 0.595 0.595 0.595 0.689 0.725 0.667 0.702 0.595 0.595 0.506 0.693 0.297 0.595 0.685 0.507 0.595 0.595 0.595 0.695 0.725 0.667 0.702 0.595 0.595 0.508 0.595													
betg(m)   2.44   2.26   2.31   3.25   3.81   3.94   3.07   4.80   4.47   4.37   3.33   2.51     ri(m)   2.0   2.8   3.0   4.1   3.3   5.1   32.5   7.9   8.4   4.1   3.0   3.0     tamx(m)   1.6   5.4   11.6   18.3   24.1   29.9   33.6   31.7   27.3   19.7   9.7   3.4     tamn(m)   -8.3   -4.8   -1.0   4.2   9.4   13.7   17.7   16.7   12.4   5.9   -2.2   -6.7     ra(m)   227.   324.   434.   546.   615.   708.   676.   595.   514.   373.   260.   212.     COLORADO - PUEBLO   alat(deg) = 38.28   yrs = 27.   elev (m) = 1427.7   tp05(mm) = 48.3   tp6(mm) = 88.4     month   jan   feb   mar   apr   may   jun   jul   aug   sep   oct   nov   dec     prw2(m)   0.362   0.411   0.455   0.404   0.455   0.417   0.370   0.417   0.301   0.372   0.292   0.435     prw1(m)   0.104   0.113   0.136   0.116   0.172   0.180   0.246   0.230   0.143   0.092   0.093   0.071     alfg(m)   0.935   1.138   0.966   0.634   0.650   0.693   0.720   0.615   0.661   0.719   0.939   0.928     betg(m)   1.68   1.45   2.54   8.31   8.18   5.77   7.47   8.79   6.25   8.18   3.58   2.31     ri(m)   0.8   1.0   4.8   11.7   19.3   34.3   21.1   30.2   5.1   2.3   2.0   3.0     tamx(m)   7.4   9.2   12.7   18.8   24.1   30.5   33.4   32.1   28.1   21.6   13.2   9.3     tamm(m)   -9.6   -7.1   -3.7   1.9   7.7   12.9   16.0   15.3   10.3   3.7   -4.3   -8.0     re(m)   208.   275.   408.   467.   467.   532.   527.   446.   419.   317.   529.   189.     CONNECTICUT - HARTFORD (WINDSOR LOCKS)   alat(deg) = 41.93   yrs = 53.   elev (m) = 51.5   tp05(mm) = 57.1   tp6(mm) = 125.7     alfg(m)   0.780   0.650   0.755   0.689   0.725   0.667   0.702   0.594   0.556   0.641   0.687   0.694     betg(m)   90.30   12.32   12.37   12.80   9.37   11.53   11.86   18.24   19.05   17.63   13.46   12.85     ri(m)   7.6   7.1   6.6   14.7   16.0   14.7   36.1   33.0   22.9   36.8   5.6   10.2     tamx(m)   2.3   3.3   8.6   15.5   22.4   27.2   29.8   28.3   24.2   18.2   10.8     tamm(m)   -7.8   -7.7   -2.8   2.2   8.3   31.8   16.7   15.5   11.2   5.0   -0.4   -6.													
ri(m) 2.0 2.8 3.0 4.1 3.3 5.1 32.5 7.9 8.4 4.1 3.0 3.0 tamx(m) 1.6 5.4 11.6 18.3 24.1 29.9 33.6 31.7 27.3 19.7 9.7 3.4 tam(m) -8.3 -4.8 -1.0 4.2 9.4 13.7 17.7 16.7 12.4 5.9 -2.2 -6.7 ra(m) 227. 324. 434. 546. 615. 708. 676. 595. 514. 373. 260. 212. COLORADO - PUEBLO alat(deg)= 38.28 yrs= 27. elev (m)=1427.7 tp05(mm)= 48.3 tp6(mm)= 88.4 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.362 0.411 0.455 0.404 0.455 0.417 0.370 0.417 0.301 0.372 0.292 0.435 prw1(m) 0.104 0.113 0.136 0.116 0.172 0.180 0.246 0.230 0.143 0.092 0.093 0.071 alfg(m) 0.935 1.138 0.966 0.634 0.650 0.693 0.720 0.615 0.661 0.719 0.939 0.928 betg(m) 1.68 1.45 2.54 8.31 8.18 5.77 7.47 8.79 6.25 8.18 3.58 2.31 ri(m) 7.4 9.2 12.7 18.8 24.1 30.5 33.4 32.1 28.1 21.6 13.2 9.3 tamm(m) -9.6 -7.1 -3.7 1.9 7.7 12.9 16.0 15.3 10.3 3.7 -4.3 -8.0 ra(m) 208. 275. 408. 467. 467. 532. 527. 446. 419. 317. 529. 189. CONNECTICUT - HARTFORD (WINDSOR LOCKS) alat(deg)= 41.93 yrs= 53. elev (m)= 51.5 tp05(mm)= 57.1 tp6(mm)= 125.7 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.406 0.454 0.455 0.475 0.412 0.469 0.356 0.387 0.444 0.421 0.513 0.493 prw1(m) 0.311 0.311 0.301 0.310 0.310 0.309 0.295 0.275 0.274 0.236 0.182 0.297 0.297 alfg(m) 0.780 0.650 0.755 0.689 0.725 0.667 0.702 0.594 0.556 0.641 0.687 0.694 betg(m) 90.30 12.32 12.37 12.80 9.37 11.53 11.86 18.24 19.05 17.63 13.46 12.85 ri(m) 7.6 7.1 6.6 14.7 16.0 14.7 36.1 33.0 22.9 36.8 5.6 10.2 tamx(m) 2.3 3.3 8.6 15.5 22.4 27.2 29.8 28.3 24.2 18.2 10.8 3.9 tamm(m) -7.8 -7.7 -2.8 2.2 8.3 13.8 16.7 15.5 11.2 5.0 -0.4 -6.6													
tamx(m) 1.6 5.4 11.6 18.3 24.1 29.9 33.6 31.7 27.3 19.7 9.7 3.4 tamn(m) -8.3 -4.8 -1.0 4.2 9.4 13.7 17.7 16.7 12.4 5.9 -2.2 -6.7 ra(m) 227. 324. 434. 546. 615. 708. 676. 595. 514. 373. 260. 212. COLORADO - PUEBLO alat(deg)= 38.28 yrs= 27. elev (m)=1427.7 tp05(mm)= 48.3 tp6(mm)= 88.4 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.362 0.411 0.455 0.404 0.455 0.417 0.370 0.417 0.301 0.372 0.292 0.435 prw1(m) 0.104 0.113 0.136 0.116 0.172 0.180 0.246 0.230 0.143 0.092 0.093 0.071 alfg(m) 0.935 1.138 0.966 0.634 0.650 0.693 0.720 0.615 0.661 0.719 0.939 0.928 betg(m) 1.68 1.45 2.54 8.31 8.18 5.77 7.47 8.79 6.25 8.18 3.58 2.31 ri(m) 0.8 1.0 4.8 11.7 19.3 34.3 21.1 30.2 5.1 2.3 2.0 3.0 tamx(m) 7.4 9.2 12.7 18.8 24.1 30.5 33.4 32.1 28.1 21.6 13.2 9.3 tamn(m) -9.6 -7.1 -3.7 1.9 7.7 12.9 16.0 15.3 10.3 3.7 -4.3 -8.0 ra(m) 208. 275. 408. 467. 467. 532. 527. 446. 419. 317. 529. 189. CONNECTICUT - HARTFORD (WINDSOR LOCKS) alat(deg)= 41.93 yrs= 53. elev (m)= 51.5 tp05(mm)= 57.1 tp6(mm)= 125.7 nonth jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.406 0.454 0.445 0.475 0.412 0.469 0.356 0.387 0.444 0.421 0.513 0.493 prw1(m) 0.311 0.311 0.301 0.310 0.309 0.295 0.275 0.274 0.236 0.182 0.297 0.297 0.186 0.186 0.186 0.182 0.297 0.297 0.186 0.186 0.182 0.297 0.297 0.186 0.186 0.182 0.297 0.297 0.186 0.182 0.297 0.297 0.186 0.186 0.182 0.297 0.297 0.186 0.186 0.182 0.297 0.297 0.297 0.186 0.182 0.297													
ra(m) 227. 324. 434. 546. 615. 708. 676. 595. 514. 373. 260. 212. COLORADO - PUEBLO alat(deg)= 38.28 yrs= 27. elev (m)=1427.7 tp05(mm)= 48.3 tp6(mm)= 88.4 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.362 0.411 0.455 0.404 0.455 0.417 0.370 0.417 0.301 0.372 0.292 0.435 prw1(m) 0.104 0.113 0.136 0.116 0.172 0.180 0.246 0.230 0.143 0.092 0.093 0.071 alfg(m) 0.935 1.138 0.966 0.634 0.650 0.693 0.720 0.615 0.661 0.719 0.939 0.928 betg(m) 1.68 1.45 2.54 8.31 8.18 5.77 7.47 8.79 6.25 8.18 3.58 2.31 ri(m) 0.8 1.0 4.8 11.7 19.3 34.3 21.1 30.2 5.1 2.3 2.0 3.0 tamx(m) 7.4 9.2 12.7 18.8 24.1 30.5 33.4 32.1 28.1 21.6 13.2 9.3 tamn(m) -9.6 -7.1 -3.7 1.9 7.7 12.9 16.0 15.3 10.3 3.7 -4.3 8.0 ra(m) 208. 275. 408. 467. 467. 532. 527. 446. 419. 317. 529. 189. CONNECTICUT - KARTFORD (WINDSOR LOCKS) alat(deg)= 41.93 yrs= 53. elev (m)= 51.5 tp05(mm)= 57.1 tp6(mm)= 125.7 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.406 0.454 0.445 0.475 0.412 0.469 0.356 0.387 0.444 0.421 0.513 0.493 prw1(m) 0.311 0.311 0.301 0.301 0.309 0.295 0.275 0.274 0.236 0.182 0.297 0.297 alfg(m) 0.780 0.650 0.755 0.689 0.725 0.667 0.702 0.594 0.556 0.641 0.687 0.694 betg(m) 90.30 12.32 12.37 12.80 9.37 11.53 11.86 18.24 19.05 17.63 13.46 12.85 ri(m) 7.6 7.1 6.6 14.7 16.0 14.7 36.1 33.0 22.9 36.8 5.6 10.2 tamx(m) 2.3 3.3 8.6 15.5 22.4 27.2 29.8 28.3 24.2 18.2 10.8 3.9 tamn(m) -7.8 -7.7 -2.8 2.2 8.3 13.8 16.7 15.5 11.2 5.0 -0.4 -6.6				11.6	18.3	24.1	29.9	33 6	31.7			0.7	3.4
COLORADO - PUEBLO alat(deg)= 38.28 yrs= 27. elev (m)=1427.7 tp05(mm)= 48.3 tp6(mm)= 88.4 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.362 0.411 0.455 0.404 0.455 0.417 0.370 0.417 0.370 0.417 0.301 0.372 0.292 0.435 prw1(m) 0.104 0.113 0.136 0.116 0.172 0.180 0.246 0.230 0.143 0.092 0.093 0.071 alfg(m) 0.935 1.138 0.966 0.634 0.650 0.693 0.720 0.615 0.661 0.719 0.939 0.928 betg(m) 1.68 1.45 2.54 8.31 8.18 5.77 7.47 8.79 6.25 8.18 3.58 2.31 ri(m) 0.8 1.0 4.8 11.7 19.3 34.3 21.1 30.2 5.1 2.3 2.0 3.0 tamx(m) 7.4 9.2 12.7 18.8 24.1 30.5 33.4 32.1 28.1 21.6 13.2 9.3 tamn(m) -9.6 -7.1 -3.7 1.9 7.7 12.9 16.0 15.3 10.3 3.7 -4.3 8.0 ra(m) 208. 275. 408. 467. 467. 532. 527. 446. 419. 317. 529. 189. CONNECTICUT - KARTFORD (WINDSOR LOCKS) alat(deg)= 41.93 yrs= 53. elev (m)= 51.5 tp05(mm)= 57.1 tp6(mm)= 125.7 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.406 0.454 0.445 0.475 0.412 0.469 0.356 0.387 0.444 0.421 0.513 0.493 prw1(m) 0.311 0.301 0.301 0.309 0.295 0.275 0.274 0.236 0.182 0.297 0.297 alfg(m) 0.780 0.650 0.755 0.689 0.725 0.667 0.702 0.594 0.556 0.641 0.687 0.694 betg(m) 90.30 12.32 12.37 12.80 9.37 11.53 11.86 18.24 19.05 17.63 13.46 12.85 ri(m) 7.6 7.1 6.6 14.7 16.0 14.7 36.1 33.0 22.9 36.8 5.6 10.2 tamx(m) 2.3 3.3 8.6 15.5 22.2 8.3 13.8 16.7 15.5 11.2 5.0 -0.4 -6.6	tamn(m)			-1.0	/. 2			33.0			17 . /	7.1	
month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.362 0.411 0.455 0.404 0.455 0.417 0.370 0.417 0.301 0.372 0.292 0.435 prw1(m) 0.104 0.113 0.136 0.116 0.172 0.180 0.246 0.230 0.143 0.092 0.093 0.071 alfg(m) 0.935 1.138 0.966 0.634 0.650 0.693 0.720 0.615 0.661 0.719 0.939 0.928 betg(m) 1.68 1.45 2.54 8.31 8.18 5.77 7.47 8.79 6.25 8.18 3.58 2.31 ri(m) 0.8 1.0 4.8 11.7 19.3 34.3 21.1 30.2 5.1 2.3 2.0 3.0 tamx(m) 7.4 9.2 12.7 18.8 24.1 30.5 33.4 32.1 28.1 21.6 13.2 9.3 tamn(m) -9.6 -7.1 -3.7 1.9 7.7 12.9 16.0 15.3 10.3 3.7 -4.3 -8.0 ra(m) 208. 275. 408. 467. 467. 532. 527. 446. 419. 317. 529. 189. CONNECTICUT - MARTFORD (WINDSOR LOCKS) alst(deg)= 41.93 yrs= 53. elev (m)= 51.5 tp05(mm)= 57.1 tp6(mm)= 125.7 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.406 0.454 0.445 0.475 0.475 0.412 0.469 0.356 0.387 0.444 0.421 0.513 0.493 prw1(m) 0.311 0.311 0.301 0.310 0.309 0.295 0.275 0.274 0.236 0.182 0.297 0.297 alfg(m) 90.30 12.32 12.37 12.80 9.37 11.53 11.86 18.24 19.05 17.63 13.46 12.85 ri(m) 7.6 7.1 6.6 14.7 16.0 14.7 36.1 33.0 22.9 36.8 5.6 10.2 tamx(m) 2.3 3.3 8.6 15.5 22.4 27.2 29.8 28.3 24.2 18.2 10.8 3.9 tamn(m) -7.8 -7.7 -2.8 2.2 8.3 13.8 16.7 15.5 11.2 5.0 -0.4 -6.6		227.			4.6	9.4				12.4			-6.7
prw2(m)         0.362         0.411         0.455         0.404         0.455         0.417         0.370         0.417         0.301         0.372         0.292         0.435           prw1(m)         0.104         0.113         0.136         0.116         0.172         0.180         0.246         0.230         0.143         0.092         0.093         0.071           alfg(m)         0.935         1.138         0.966         0.634         0.650         0.693         0.720         0.615         0.661         0.719         0.939         0.928           betg(m)         1.68         1.45         2.54         8.31         8.18         5.77         7.47         8.79         6.25         8.18         3.58         2.31           ri(m)         0.8         1.0         4.8         11.7         19.3         34.3         21.1         30.2         5.1         2.3         2.0         3.0           tamx(m)         7.4         9.2         12.7         18.8         24.1         30.5         33.4         32.1         28.1         21.6         13.2         9.3           tamm(m)         -9.6         -7.1         -3.7         1.9         7.7         12.9					546.	615.	13.7 708.	17.7 676.	16.7 595.	12.4 514.	5.9 373.	-2.2	- 11
prw1(m) 0.104 0.113 0.136 0.116 0.172 0.180 0.246 0.230 0.143 0.092 0.093 0.071 alfg(m) 0.935 1.138 0.966 0.634 0.650 0.693 0.720 0.615 0.661 0.719 0.939 0.928 betg(m) 1.68 1.45 2.54 8.31 8.18 5.77 7.47 8.79 6.25 8.18 3.58 2.31 ri(m) 0.8 1.0 4.8 11.7 19.3 34.3 21.1 30.2 5.1 2.3 2.0 3.0 tamx(m) 7.4 9.2 12.7 18.8 24.1 30.5 33.4 32.1 28.1 21.6 13.2 9.3 tamn(m) -9.6 -7.1 -3.7 1.9 7.7 12.9 16.0 15.3 10.3 3.7 -4.3 -8.0 ra(m) 208. 275. 408. 467. 467. 532. 527. 446. 419. 317. 529. 189. CONNECTICUT - HARTFORD (WINDSOR LOCKS) alat(deg)= 41.93 yrs= 53. elev (m)= 51.5 tp05(mm)= 57.1 tp6(mm)= 125.7 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.406 0.454 0.445 0.475 0.412 0.469 0.356 0.387 0.444 0.421 0.513 0.493 prw1(m) 0.311 0.311 0.301 0.310 0.309 0.295 0.275 0.274 0.236 0.182 0.297 0.297 alfg(m) 0.780 0.650 0.755 0.689 0.725 0.667 0.702 0.594 0.556 0.641 0.687 0.694 betg(m) 90.30 12.32 12.37 12.80 9.37 11.53 11.86 18.24 19.05 17.63 13.46 12.85 ri(m) 7.6 7.1 6.6 14.7 16.0 14.7 36.1 33.0 22.9 36.8 5.6 10.2 tamx(m) 2.3 3.3 8.6 15.5 22.4 27.2 29.8 28.3 24.2 18.2 10.8 3.9 tamn(m) -7.8 -7.7 -2.8 2.2 8.3 13.8 16.7 15.5 11.2 5.0 -0.4 -6.6		PUEBLO	alat(deg	)= 38.28	546. yrs= 27.	615. elev	13.7 708. (m)=1427.	17.7 676. 7 tp05(mm)	16.7 595. )= 48.3	12.4 514. tp6(mm)=	5.9 373. 88.4	-2.2 260.	212.
alfg(m) 0.935 1.138 0.966 0.634 0.650 0.693 0.720 0.615 0.661 0.719 0.939 0.928 betg(m) 1.68 1.45 2.54 8.31 8.18 5.77 7.47 8.79 6.25 8.18 3.58 2.31 ri(m) 0.8 1.0 4.8 11.7 19.3 34.3 21.1 30.2 5.1 2.3 2.0 3.0 tamx(m) 7.4 9.2 12.7 18.8 24.1 30.5 33.4 32.1 28.1 21.6 13.2 9.3 tamn(m) -9.6 -7.1 -3.7 1.9 7.7 12.9 16.0 15.3 10.3 3.7 -4.3 8.0 ra(m) 208. 275. 408. 467. 467. 532. 527. 446. 419. 317. 529. 189. CONNECTICUT - HARTFORD (WINDSOR LOCKS) alat(deg)= 41.93 yrs= 53. elev (m)= 51.5 tp05(mm)= 57.1 tp6(mm)= 125.7 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.406 0.454 0.445 0.475 0.412 0.469 0.356 0.387 0.444 0.421 0.513 0.493 prw1(m) 0.311 0.311 0.301 0.310 0.309 0.295 0.275 0.274 0.236 0.182 0.297 0.297 alfg(m) 0.780 0.650 0.755 0.689 0.725 0.667 0.702 0.594 0.556 0.641 0.687 0.694 betg(m) 90.30 12.32 12.37 12.80 9.37 11.53 11.86 18.24 19.05 17.63 13.46 12.85 ri(m) 7.6 7.1 6.6 14.7 16.0 14.7 36.1 33.0 22.9 36.8 5.6 10.2 tamx(m) 2.3 3.3 8.6 15.5 22.4 27.2 29.8 28.3 24.2 18.2 10.8 3.9 tamn(m) -7.8 -7.7 -2.8 2.2 8.3 13.8 16.7 15.5 11.2 5.0 -0.4 -6.6	month	PUEBLO jan	alat(deg feb	)= 38.28 mar	546. yrs= 27. apr	615. elev may	13.7 708. (m)=1427. jun	17.7 676. 7 tp05(mm) jul	16.7 595. )= 48.3 aug	12.4 514. tp6(mm)= sep	5.9 373. 88.4 oct	-2.2 260.	212. dec
betg(m) 1.68 1.45 2.54 8.31 8.18 5.77 7.47 8.79 6.25 8.18 3.58 2.31 ri(m) 0.8 1.0 4.8 11.7 19.3 34.3 21.1 30.2 5.1 2.3 2.0 3.0 tamx(m) 7.4 9.2 12.7 18.8 24.1 30.5 33.4 32.1 28.1 21.6 13.2 9.3 tamn(m) -9.6 -7.1 -3.7 1.9 7.7 12.9 16.0 15.3 10.3 3.7 -4.3 -8.0 ra(m) 208. 275. 408. 467. 467. 532. 527. 446. 419. 317. 529. 189. CONNECTICUT - HARTFORD (WINDSOR LOCKS) alst(deg) = 41.93 yrs = 53. elev (m) = 51.5 tp05(mm) = 57.1 tp6(mm) = 125.7 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.406 0.454 0.445 0.475 0.412 0.469 0.356 0.387 0.444 0.421 0.513 0.493 prw1(m) 0.311 0.301 0.310 0.309 0.295 0.275 0.274 0.236 0.182 0.297 0.297 alfg(m) 0.780 0.650 0.755 0.689 0.725 0.667 0.702 0.594 0.556 0.641 0.687 0.694 betg(m) 90.30 12.32 12.37 12.80 9.37 11.53 11.86 18.24 19.05 17.63 13.46 12.85 ri(m) 7.6 7.1 6.6 14.7 16.0 14.7 36.1 33.0 22.9 36.8 5.6 10.2 tamx(m) 2.3 3.3 8.6 15.5 22.4 27.2 29.8 28.3 24.2 18.2 10.8 3.9 tamn(m) -7.8 -7.7 -2.8 2.2 8.3 13.8 16.7 15.5 11.2 5.0 -0.4 -6.6	month prw2(m)	PUEBLO jan 0.362	alat(deg feb 0.411	)= 38.28 mar 0.455	546. yrs= 27. apr 0.404	615. elev ( may 0.455	13.7 708. (m)=1427.7 jun 0.417	17.7 676. 7 tp05(mm) jul 0.370	16.7 595. )= 48.3 aug 0.417	12.4 514. tp6(mm)= sep 0.301	5.9 373. 88.4 oct 0.372	-2.2 260. nov 0.292	dec 0.435
ri(m) 0.8 1.0 4.8 11.7 19.3 34.3 21.1 30.2 5.1 2.3 2.0 3.0 tamx(m) 7.4 9.2 12.7 18.8 24.1 30.5 33.4 32.1 28.1 21.6 13.2 9.3 tamn(m) -9.6 -7.1 -3.7 1.9 7.7 12.9 16.0 15.3 10.3 3.7 -4.3 -8.0 ra(m) 208. 275. 408. 467. 467. 532. 527. 446. 419. 317. 529. 189. CONNECTICUT - HARTFORD (WINDSOR LOCKS) alat(deg) = 41.93 yrs = 53. elev (m) = 51.5 tp05(mm) = 57.1 tp6(mm) = 125.7 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.406 0.454 0.445 0.475 0.412 0.469 0.356 0.387 0.444 0.421 0.513 0.493 prw1(m) 0.311 0.301 0.301 0.310 0.309 0.295 0.275 0.274 0.236 0.182 0.297 0.297 alfg(m) 0.780 0.650 0.755 0.689 0.725 0.667 0.702 0.594 0.556 0.641 0.687 0.694 betg(m) 90.30 12.32 12.37 12.80 9.37 11.53 11.86 18.24 19.05 17.63 13.46 12.85 ri(m) 7.6 7.1 6.6 14.7 16.0 14.7 36.1 33.0 22.9 36.8 5.6 10.2 tamx(m) 2.3 3.3 8.6 15.5 22.4 27.2 29.8 28.3 24.2 18.2 10.8 3.9 tamn(m) -7.8 -7.7 -2.8 2.2 8.3 13.8 16.7 15.5 11.2 5.0 -0.4 -6.6	month prw2(m) prw1(m)	PUEBLO jan 0.362 0.104	alat(deg feb 0.411 0.113	)= 38.28 mar 0.455 0.136	546. yrs= 27. apr 0.404 0.116	615. elev may 0.455 0.172	13.7 708. (m)=1427.3 jun 0.417 0.180	17.7 676. 7 tp05(mm) jul 0.370 0.246	16.7 595. )= 48.3 aug 0.417 0.230	12.4 514. tp6(mm)= sep 0.301 0.143	5.9 373. 88.4 oct 0.372 0.092	-2.2 260. nov 0.292 0.093	dec 0.435 0.071
tamx(m) 7.4 9.2 12.7 18.8 24.1 30.5 33.4 32.1 28.1 21.6 13.2 9.3 tamn(m) -9.6 -7.1 -3.7 1.9 7.7 12.9 16.0 15.3 10.3 3.7 -4.3 -8.0 ra(m) 208. 275. 408. 467. 467. 532. 527. 446. 419. 317. 529. 189. CONNECTICUT - HARTFORD (WINDSOR LOCKS) alat(deg) = 41.93 yrs = 53. elev (m) = 51.5 tp05(mm) = 57.1 tp6(mm) = 125.7 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.406 0.454 0.445 0.475 0.412 0.469 0.356 0.387 0.444 0.421 0.513 0.493 prw1(m) 0.311 0.301 0.310 0.310 0.309 0.295 0.275 0.274 0.236 0.182 0.297 0.297 alfg(m) 0.780 0.650 0.755 0.689 0.725 0.667 0.702 0.594 0.556 0.641 0.687 0.694 betg(m) 90.30 12.32 12.37 12.80 9.37 11.53 11.86 18.24 19.05 17.63 13.46 12.85 ri(m) 7.6 7.1 6.6 14.7 16.0 14.7 36.1 33.0 22.9 36.8 5.6 10.2 tamx(m) 2.3 3.3 8.6 15.5 22.4 27.2 29.8 28.3 24.2 18.2 10.8 3.9 tamn(m) -7.8 -7.7 -2.8 2.2 8.3 13.8 16.7 15.5 11.2 5.0 -0.4 -6.6	month prw2(m) prw1(m) alfg(m)	PUEBLO jan 0.362 0.104 0.935	alat(deg feb 0.411 0.113 1.138	n= 38.28 mar 0.455 0.136 0.966	546. yrs= 27. apr 0.404 0.116 0.634	615. elev may 0.455 0.172 0.650	13.7 708. (m)=1427.7 jun 0.417 0.180 0.693	17.7 676. 7 tp05(mm) jul 0.370 0.246 0.720	16.7 595. )= 48.3 aug 0.417 0.230 0.615	12.4 514. tp6(mm)= sep 0.301 0.143 0.661	5.9 373. 88.4 oct 0.372 0.092 0.719	-2.2 260. nov 0.292 0.093 0.939	dec 0.435 0.071 0.928
tamn(m) -9.6 -7.1 -3.7 1.9 7.7 12.9 16.0 15.3 10.3 3.7 -4.3 -8.0 ra(m) 208. 275. 408. 467. 467. 532. 527. 446. 419. 317. 529. 189. CONNECTICUT - HARTFORD (WINDSOR LOCKS) alat(deg) = 41.93 yrs = 53. elev (m) = 51.5 tp05(mm) = 57.1 tp6(mm) = 125.7 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.406 0.454 0.445 0.475 0.412 0.469 0.356 0.387 0.444 0.421 0.513 0.493 prw1(m) 0.311 0.311 0.301 0.310 0.309 0.295 0.275 0.274 0.236 0.182 0.297 0.297 alfg(m) 0.780 0.650 0.755 0.689 0.725 0.667 0.702 0.594 0.556 0.641 0.687 0.694 betg(m) 90.30 12.32 12.37 12.80 9.37 11.53 11.86 18.24 19.05 17.63 13.46 12.85 ri(m) 7.6 7.1 6.6 14.7 16.0 14.7 36.1 33.0 22.9 36.8 5.6 10.2 tamx(m) 2.3 3.3 8.6 15.5 22.4 27.2 29.8 28.3 24.2 18.2 10.8 3.9 tamn(m) -7.8 -7.7 -2.8 2.2 8.3 13.8 16.7 15.5 11.2 5.0 -0.4 -6.6	month prw2(m) prw1(m) alfg(m) betg(m)	PUEBLO jan 0.362 0.104 0.935 1.68	alat(deg feb 0.411 0.113 1.138 1.45	)= 38.28 mar 0.455 0.136 0.966 2.54	546. yrs= 27. apr 0.404 0.116 0.634 8.31	615. elev ( may 0.455 0.172 0.650 8.18	13.7 708. (m)=1427.3 jun 0.417 0.180 0.693 5.77	17.7 676. 7 tp05(mm) jul 0.370 0.246 0.720 7.47	16.7 595. )= 48.3 aug 0.417 0.230 0.615 8.79	12.4 514. tp6(mm)= sep 0.301 0.143 0.661 6.25	5.9 373. 88.4 oct 0.372 0.092 0.719 8.18	-2.2 260. nov 0.292 0.093 0.939 3.58	dec 0.435 0.071 0.928 2.31
ra(m) 208. 275. 408. 467. 467. 532. 527. 446. 419. 317. 529. 189. CONNECTICUT - HARTFORD (WINDSOR LOCKS) alat(deg) = 41.93 yrs = 53. elev (m) = 51.5 tp05(mm) = 57.1 tp6(mm) = 125.7 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.406 0.454 0.445 0.475 0.412 0.469 0.356 0.387 0.444 0.421 0.513 0.493 prw1(m) 0.311 0.301 0.301 0.310 0.309 0.295 0.275 0.274 0.236 0.182 0.297 0.297 alfg(m) 0.780 0.650 0.755 0.689 0.725 0.667 0.702 0.594 0.556 0.641 0.687 0.694 betg(m) 90.30 12.32 12.37 12.80 9.37 11.53 11.86 18.24 19.05 17.63 13.46 12.85 ri(m) 7.6 7.1 6.6 14.7 16.0 14.7 36.1 33.0 22.9 36.8 5.6 10.2 tamx(m) 2.3 3.3 8.6 15.5 22.4 27.2 29.8 28.3 24.2 18.2 10.8 3.9 tamn(m) -7.8 -7.7 -2.8 2.2 8.3 13.8 16.7 15.5 11.2 5.0 -0.4 -6.6	month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	PUEBLO jan 0.362 0.104 0.935 1.68 0.8	alat(deg feb 0.411 0.113 1.138 1.45 1.0	nar 0.455 0.136 0.966 2.54 4.8	546. yrs= 27. apr 0.404 0.116 0.634 8.31 11.7	615. elev ( may 0.455 0.172 0.650 8.18 19.3	13.7 708. (m)=1427.7 jun 0.417 0.180 0.693 5.77 34.3	17.7 676. 7 tp05(mm) jul 0.370 0.246 0.720 7.47 21.1	16.7 595. )= 48.3 aug 0.417 0.230 0.615 8.79 30.2	12.4 514. tp6(mm)= sep 0.301 0.143 0.661 6.25 5.1	5.9 373. 88.4 oct 0.372 0.092 0.719 8.18 2.3	-2.2 260. nov 0.292 0.093 0.939 3.58 2.0	dec 0.435 0.071 0.928 2.31 3.0
CONNECTICUT - WARTFORD (WINDSOR LOCKS) alat(deg) = 41.93 yrs = 53. elev (m) = 51.5 tp05(mm) = 57.1 tp6(mm) = 125.7 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.406 0.454 0.445 0.475 0.412 0.469 0.356 0.387 0.444 0.421 0.513 0.493 prw1(m) 0.311 0.311 0.301 0.310 0.309 0.295 0.275 0.274 0.236 0.182 0.297 0.297 alfg(m) 0.780 0.650 0.755 0.689 0.725 0.667 0.702 0.594 0.556 0.641 0.687 0.694 betg(m) 90.30 12.32 12.37 12.80 9.37 11.53 11.86 18.24 19.05 17.63 13.46 12.85 ri(m) 7.6 7.1 6.6 14.7 16.0 14.7 36.1 33.0 22.9 36.8 5.6 10.2 tamx(m) 2.3 3.3 8.6 15.5 22.4 27.2 29.8 28.3 24.2 18.2 10.8 3.9 tamn(m) -7.8 -7.7 -2.8 2.2 8.3 13.8 16.7 15.5 11.2 5.0 -0.4 -6.6	month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	PUEBLO jan 0.362 0.104 0.935 1.68 0.8 7.4	alat(deg feb 0.411 0.113 1.138 1.45 1.0 9.2	nar 0.455 0.136 0.966 2.54 4.8 12.7	546. yrs= 27. apr 0.404 0.116 0.634 8.31 11.7 18.8	615. elev may 0.455 0.172 0.650 8.18 19.3 24.1	13.7 708. (m)=1427.7 jun 0.417 0.180 0.693 5.77 34.3 30.5	17.7 676. 7 tp05(mm) jul 0.370 0.246 0.720 7.47 21.1 33.4	16.7 595. )= 48.3 aug 0.417 0.230 0.615 8.79 30.2 32.1	12.4 514. tp6(mm)= sep 0.301 0.143 0.661 6.25 5.1 28.1	5.9 373. 88.4 oct 0.372 0.092 0.719 8.18 2.3 21.6	-2.2 260. nov 0.292 0.093 0.939 3.58 2.0 13.2	dec 0.435 0.071 0.928 2.31 3.0 9.3
prw2(m)         0.406         0.454         0.445         0.475         0.412         0.469         0.356         0.387         0.444         0.421         0.513         0.493           prw1(m)         0.311         0.311         0.301         0.319         0.309         0.295         0.275         0.274         0.236         0.182         0.297         0.297           alfg(m)         0.780         0.650         0.755         0.689         0.725         0.667         0.702         0.594         0.556         0.641         0.687         0.694           betg(m)         90.30         12.32         12.37         12.80         9.37         11.53         11.86         18.24         19.05         17.63         13.46         12.85           ri(m)         7.6         7.1         6.6         14.7         16.0         14.7         36.1         33.0         22.9         36.8         5.6         10.2           tamx(m)         2.3         3.3         8.6         15.5         22.4         27.2         29.8         28.3         24.2         18.2         10.8         3.9           tamn(m)         -7.8         -7.7         -2.8         2.2         8.3         13.8<	month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m)	PUEBLO jan 0.362 0.104 0.935 1.68 0.8 7.4 -9.6	alat(deg feb 0.411 0.113 1.138 1.45 1.0 9.2 -7.1	)= 38.28 mar 0.455 0.136 0.966 2.54 4.8 12.7 -3.7	546. yrs= 27. apr 0.404 0.116 0.634 8.31 11.7 18.8 1.9	615. elev may 0.455 0.172 0.650 8.18 19.3 24.1 7.7	13.7 708. (m)=1427.7 jun 0.417 0.180 0.693 5.77 34.3 30.5 12.9	17.7 676. 7 tp05(mm) jul 0.370 0.246 0.720 7.47 21.1 33.4 16.0	16.7 595. )= 48.3 aug 0.417 0.230 0.615 8.79 30.2 32.1 15.3	12.4 514. tp6(mm)= sep 0.301 0.143 0.661 6.25 5.1 28.1 10.3	5.9 373. 88.4 oct 0.372 0.092 0.719 8.18 2.3 21.6 3.7	-2.2 260. nov 0.292 0.093 0.939 3.58 2.0 13.2	dec 0.435 0.071 0.928 2.31 3.0 9.3 -8.0
prw1(m)       0.311       0.311       0.301       0.319       0.309       0.295       0.275       0.274       0.236       0.182       0.297       0.297         alfg(m)       0.780       0.650       0.755       0.689       0.725       0.667       0.702       0.594       0.556       0.641       0.687       0.694         betg(m)       90.30       12.32       12.37       12.80       9.37       11.53       11.86       18.24       19.05       17.63       13.46       12.85         ri(m)       7.6       7.1       6.6       14.7       16.0       14.7       36.1       33.0       22.9       36.8       5.6       10.2         tamx(m)       2.3       3.3       8.6       15.5       22.4       27.2       29.8       28.3       24.2       18.2       10.8       3.9         tamn(m)       -7.8       -7.7       -2.8       2.2       8.3       13.8       16.7       15.5       11.2       5.0       -0.4       -6.6	month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamxn(m) ra(m)	PUEBLO jan 0.362 0.104 0.935 1.68 0.8 7.4 -9.6 208.	alat(deg feb 0.411 0.113 1.138 1.45 1.0 9.2 -7.1 275.	ner 0.455 0.455 0.136 0.966 2.54 4.8 12.7 -3.7 408.	546. yrs= 27. apr 0.404 0.116 0.634 8.31 11.7 18.8 1.9 467.	615. elev may 0.455 0.172 0.650 8.18 19.3 24.1 7.7 467.	13.7 708. (m)=1427.7 jun 0.417 0.180 0.693 5.77 34.3 30.5 12.9 532.	17.7 676. 7 tp05(mm) jul 0.370 0.246 0.720 7.47 21.1 33.4 16.0 527.	16.7 595. )= 48.3 aug 0.417 0.230 0.615 8.79 30.2 32.1 15.3 446.	12.4 514. tp6(mm)= sep 0.301 0.143 0.661 6.25 5.1 28.1 10.3 419.	5.9 373. 88.4 oct 0.372 0.092 0.719 8.18 2.3 21.6 3.7 317.	-2.2 260. nov 0.292 0.093 0.939 3.58 2.0 13.2 -4.3 529.	dec 0.435 0.071 0.928 2.31 3.0 9.3 -8.0 189.
alfg(m) 0.780 0.650 0.755 0.689 0.725 0.667 0.702 0.594 0.556 0.641 0.687 0.694 betg(m) 90.30 12.32 12.37 12.80 9.37 11.53 11.86 18.24 19.05 17.63 13.46 12.85 ri(m) 7.6 7.1 6.6 14.7 16.0 14.7 36.1 33.0 22.9 36.8 5.6 10.2 tamx(m) 2.3 3.3 8.6 15.5 22.4 27.2 29.8 28.3 24.2 18.2 10.8 3.9 tamn(m) -7.8 -7.7 -2.8 2.2 8.3 13.8 16.7 15.5 11.2 5.0 -0.4 -6.6	month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) CONNECTICUT	PUEBLO jan 0.362 0.104 0.935 1.68 0.8 7.4 -9.6 208. T - HARTFOR	alat(deg feb 0.411 0.113 1.138 1.45 1.0 9.2 -7.1 275.	38.28 mar 0.455 0.136 0.966 2.54 4.8 12.7 -3.7 408. R LOCKS) mar	546. yrs= 27. apr 0.404 0.116 0.634 8.31 11.7 18.8 1.9 467. alat(de apr	615. elev may 0.455 0.172 0.650 8.18 19.3 24.1 7.7 467. g)= 41.93	13.7 708. (m)=1427. jun 0.417 0.180 0.693 5.77 34.3 30.5 12.9 532. yrs= 53. jun	17.7 676. 7 tp05(mm) jul 0.370 0.246 0.720 7.47 21.1 33.4 16.0 527. elev	16.7 595.)= 48.3 aug 0.417 0.230 0.615 8.79 30.2 32.1 15.3 446. (m)= 5	12.4 514. tp6(mm)= sep 0.301 0.143 0.661 6.25 5.1 28.1 10.3 419. 1.5 tp05(mm)=	5.9 373. 88.4 oct 0.372 0.092 0.719 8.18 23.3 21.6 3.7 317. m) = 57.1 oct	-2.2 260. nov 0.292 0.093 0.939 3.58 2.0 13.2 -4.3 529. tp6(mm)=	dec 0.435 0.071 0.928 2.31 3.0 9.3 -8.0 189. 125.7 dec
betg(m) 90.30 12.32 12.37 12.80 9.37 11.53 11.86 18.24 19.05 17.63 13.46 12.85 ri(m) 7.6 7.1 6.6 14.7 16.0 14.7 36.1 33.0 22.9 36.8 5.6 10.2 tamx(m) 2.3 3.3 8.6 15.5 22.4 27.2 29.8 28.3 24.2 18.2 10.8 3.9 tamn(m) -7.8 -7.7 -2.8 2.2 8.3 13.8 16.7 15.5 11.2 5.0 -0.4 -6.6	month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) CONNECTICUT month prw2(m)	PUEBLO jan 0.362 0.104 0.935 1.68 0.8 7.4 -9.6 208. T - HARTFOR jan 0.406	alat(deg feb 0.411 0.113 1.138 1.45 1.0 9.2 -7.1 275. RD (WINDSO feb 0.454	38.28 mar 0.455 0.136 0.966 2.54 4.8 12.7 -3.7 408. R LOCKS) mar 0.445	546. yrs= 27. apr 0.404 0.116 0.634 8.31 11.7 18.8 1.9 467. alst(de apr 0.475	615. elev may 0.455 0.172 0.650 8.18 19.3 24.1 7.7 467. g)= 41.93 may 0.412	13.7 708. (m)=1427. jun 0.417 0.180 0.693 5.77 34.3 30.5 12.9 532. yrs= 53. jun 0.469	17.7 676. 7 tp05(mm) jul 0.370 0.246 0.720 7.47 21.1 33.4 16.0 527. elev jul 0.356	16.7 595.)= 48.3 aug 0.417 0.230 0.615 8.79 30.2 32.1 15.3 446. (m)= 5	12.4 514. tp6(mm)= sep 0.301 0.143 0.661 6.25 5.1 28.1 10.3 419. 1.5 tp05(msep) 0.444	5.9 373. 88.4 oct 0.372 0.092 0.719 8.18 2.3 21.6 3.7 317. TEN) = 57.1 oct 0.421	-2.2 260. nov 0.292 0.093 0.939 3.58 2.0 13.2 -4.3 529. tp6(mm)= nov 0.513	212.  dec 0.435 0.071 0.928 2.31 3.0 9.3 -8.0 189. 125.7 dec 0.493
ri(m) 7.6 7.1 6.6 14.7 16.0 14.7 36.1 33.0 22.9 36.8 5.6 10.2 tamx(m) 2.3 3.3 8.6 15.5 22.4 27.2 29.8 28.3 24.2 18.2 10.8 3.9 tamn(m) -7.8 -7.7 -2.8 2.2 8.3 13.8 16.7 15.5 11.2 5.0 -0.4 -6.6	month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) CONNECTICUT month prw2(m) prw1(m)	PUEBLO jan 0.362 0.104 0.935 1.68 0.8 7.4 -9.6 208. T - HARTFOR jan 0.406 0.311	alat(deg feb 0.411 0.113 1.138 1.45 1.0 9.2 -7.1 275. RD (WINDSO feb 0.454 0.311	38.28 mar 0.455 0.136 0.966 2.54 4.8 12.7 -3.7 408. R LOCKS) mar 0.445 0.301	546. yrs= 27. apr 0.404 0.116 0.634 8.31 11.7 18.8 1.9 467. alat(de apr 0.475 0.310	615. elev may 0.455 0.172 0.650 8.18 19.3 24.1 7.7 467. g)= 41.93 may 0.412 0.309	13.7 708. (m)=1427.1 jun 0.417 0.180 0.693 5.77 34.3 30.5 12.9 532. yrs=532. jun 0.469 0.295	17.7 676. 7 tp05(mm) jul 0.370 0.246 0.720 7.47 21.1 33.4 16.0 527. elev (jul 0.356 0.275	16.7 595. )= 48.3 aug 0.417 0.230 0.615 8.79 30.2 32.1 15.3 446. (m)= 5 aug 0.387 0.274	12.4 514. tp6(mm)= sep 0.301 0.143 0.661 6.25 5.1 28.1 10.3 419. 1.5 tp05(i sep 0.444 0.236	5.9 373. 88.4 oct 0.372 0.092 0.719 8.18 2.3 21.6 3.7 317. tm) = 57.1 oct 0.421 0.182	-2.2 260. nov 0.292 0.093 0.939 3.58 2.0 13.2 -4.3 529. tp6(mm)= nov 0.513 0.297	212.  dec 0.435 0.071 0.928 2.31 3.0 9.3 -8.0 189. 125.7 dec 0.493 0.297
tamx(m) 2.3 3.3 8.6 15.5 22.4 27.2 29.8 28.3 24.2 18.2 10.8 3.9 tamn(m) -7.8 -7.7 -2.8 2.2 8.3 13.8 16.7 15.5 11.2 5.0 -0.4 -6.6	month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) connectIcUI month prw2(m) prw1(m) alfg(m)	PUEBLO jan 0.362 0.104 0.935 1.68 0.8 7.4 -9.6 208. T - HARTFOR jan 0.406 0.311 0.780	alat(deg feb 0.411 0.113 1.138 1.45 1.0 9.2 -7.1 275. ED (WINDSO feb 0.454 0.311 0.650	38.28 mar 0.455 0.136 0.966 2.54 4.8 12.7 -3.7 408. R LOCKS) mar 0.445 0.301 0.755	546. yrs= 27. apr 0.404 0.116 0.634 8.31 11.7 18.8 1.9 467. alat(de apr 0.475 0.310 0.689	615. elev (may) 0.455 0.172 0.650 8.18 19.3 24.1 7.7 467. g)= 41.93 may 0.412 0.309 0.725	13.7 708. (m)=1427.1 jun 0.417 0.180 0.693 5.77 34.3 30.5 12.9 532. yrs= 532. jun 0.469 0.295 0.667	17.7 676. 7 tp05(mm) jul 0.370 0.246 0.720 7.47 21.1 33.4 16.0 527. elev jul 0.356 0.275 0.702	16.7 595. )= 48.3 aug 0.417 0.230 0.615 8.79 30.2 32.1 15.3 446. (m) = 19 0.387 0.274 0.594	12.4 514. tp6(mm)= sep 0.301 0.143 0.661 6.25 5.1 28.1 10.3 419. 1.5 tp05(r sep 0.444 0.236 0.556	5.9 373. 88.4 oct 0.372 0.092 0.719 8.18 2.3 21.6 3.7 317. mm) = 57.1 oct 0.421 0.182 0.641	-2.2 260. nov 0.292 0.093 0.939 3.58 2.0 13.2 -4.3 529. tp6(mm)= nov 0.513 0.297	212.  dec 0.435 0.071 0.928 2.31 3.0 9.3 -8.0 189. 125.7 dec 0.493 0.297 0.694
tamn(m) -7.8 -7.7 -2.8 2.2 8.3 13.8 16.7 15.5 11.2 5.0 -0.4 -6.6	month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) CONNECTICUT month prw2(m) prw1(m) alfg(m) betg(m)	PUEBLO jan 0.362 0.104 0.935 1.68 0.8 7.4 -9.6 208. T - HARTFOR jan 0.406 0.311 0.780 90.30	alat(deg feb 0.411 0.113 1.138 1.45 1.0 9.2 -7.1 275. RD (WINDSO feb 0.454 0.311 0.650 12.32	38.28 mar 0.455 0.136 0.966 2.54 4.8 12.7 -3.7 408. R LOCKS) mar 0.445 0.301 0.755 12.37	546. yrs= 27. apr 0.404 0.116 0.634 8.31 11.7 18.8 1.9 467. alst(de apr 0.475 0.310 0.689 12.80	615. elev (may) 0.455 0.172 0.650 8.18 19.3 24.1 7.7 467. g)= 41.93 may 0.412 0.309 0.725 9.37	13.7 708. (m)=1427. jun 0.417 0.180 0.693 5.77 34.3 30.5 12.9 532. yrs= 53. jun 0.469 0.295 0.667 11.53	17.7 676. 7 tp05(mm) jul 0.370 0.246 0.720 7.47 21.1 33.4 16.0 527. elev (jul 0.356 0.275 0.702 11.86	16.7 595.) = 48.3 aug 0.417 0.230 0.615 8.79 30.2 32.1 15.3 446. (m) = 5 aug 0.387 0.274 0.594 18.24	12.4 514. tp6(mm)= sep 0.301 0.143 0.661 6.25 5.1 28.1 10.3 419. 1.5 tp05(n sep 0.444 0.236 0.556 19.05	5.9 373. 88.4 oct 0.372 0.092 0.719 8.18 2.3 21.6 3.7 317. oct 0.421 0.182 0.641 17.63	-2.2 260. nov 0.292 0.093 0.939 3.58 2.0 13.2 -4.3 529. tp6(mm)= nov 0.513 0.297 0.687 13.46	212.  dec 0.435 0.071 0.928 2.31 3.0 9.3 -8.0 189. 125.7 dec 0.493 0.297 0.694 12.85
	month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) CONNECTICUT month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	PUEBLO jan 0.362 0.104 0.935 1.68 0.8 7.4 -9.6 208.T - HARTFOR jan 0.406 0.311 0.780 90.30 7.6	alat(deg feb 0.411 0.113 1.138 1.45 1.0 9.2 -7.1 275. ED (WINDSO feb 0.454 0.311 0.650 12.32 7.1	38.28 mar 0.455 0.136 0.966 2.54 4.8 12.7 -3.7 408. R LOCKS) mar 0.445 0.301 0.755 12.37 6.6	546. yrs= 27. apr 0.404 0.116 0.634 8.31 11.7 18.8 1.9 467. alat(de apr 0.475 0.310 0.689 12.80 14.7	615. elev (may) 0.455 0.172 0.650 8.18 19.3 24.1 7.7 467. g)= 41.93 may) 0.412 0.309 0.725 9.37 16.0	13.7 708. (m)=1427. jun 0.417 0.180 0.693 5.77 34.3 30.5 12.9 532. yrs= 53. jun 0.469 0.295 0.667 11.53 14.7	17.7 676. 7 tp05(mm) jul 0.370 0.246 0.720 7.47 21.1 33.4 16.0 527. elev jul 0.356 0.275 0.702 11.86 36.1	16.7 595.)= 48.3 aug 0.417 0.23 0.615 8.79 30.2 32.1 15.3 446. (m)= 5 aug 0.387 0.274 0.594 18.24 33.0	12.4 514. tp6(mm)= sep 0.301 0.143 0.661 6.25 5.1 28.1 10.3 419. 1.5 tp05(mm)= 0.444 0.236 0.556 19.05 22.9	5.9 373. 88.4 oct 0.372 0.092 0.719 8.18 2.3 21.6 3.7 317. oct 0.421 0.421 0.641 17.63 36.8	-2.2 260. nov 0.292 0.093 0.939 3.58 2.0 13.2 -4.3 529. tp6(mm)= nov 0.513 0.297 0.687 13.46 5.6	212.  dec 0.435 0.071 0.928 2.31 3.0 9.3 -8.0 189. 125.7 dec 0.493 0.297 0.694 12.85 10.2
i açınıy 154. 617. 300. 354. 450. 316. 365. 450. 350. 650. 100. 124.	month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) CONNECTICUT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	PUEBLO jan 0.362 0.104 0.935 1.68 0.8 7.4 -9.6 208.T - HARTFOR jan 0.406 0.311 0.780 90.30 7.6 2.3	alat(deg feb 0.411 0.113 1.138 1.45 1.0 9.2 -7.1 275. ED (WINDSO feb 0.454 0.311 0.650 12.32 7.1 3.3	38.28 mar 0.455 0.136 0.966 2.54 4.8 12.7 -3.7 408. R LOCKS) mar 0.445 0.301 0.755 12.37 6.6 8.6	546. yrs= 27. apr 0.404 0.116 0.634 8.31 11.7 18.8 1.9 467. alat(de apr 0.475 0.310 0.689 12.80 14.7 15.5	615. elev may 0.455 0.172 0.650 8.18 19.3 24.1 7.7 467. g)= 41.93 may 0.412 0.309 0.725 9.37 16.0 22.4	13.7 708. (m)=1427.7 jun 0.417 0.180 0.693 5.77 34.3 30.5 12.9 532. yrs= 53. jun 0.469 0.295 0.667 11.53 14.7 27.2	17.7 676. 7 tp05(mm) jul 0.370 0.246 0.720 7.47 21.1 33.4 16.0 527. elev jul 0.356 0.275 0.702 11.86 36.1 29.8	16.7 595.) = 48.3 aug 0.417 0.230 0.615 8.79 30.2 32.1 15.3 446. (m)= 5 aug 0.387 0.287 0.594 18.24 33.0 28.3	12.4 514. tp6(mm)= sep 0.301 0.143 0.661 6.25 5.1 28.1 10.3 419. 1.5 tp05(i sep 0.444 0.236 0.556 19.05 22.9 24.2	5.9 373. 88.4 oct 0.372 0.092 0.719 8.18 2.3 21.6 3.7 317. oct 0.421 0.182 0.641 17.63 36.8 18.2	-2.2 260. nov 0.292 0.093 0.939 3.58 2.0 13.2 -4.3 529. tp6(mm)= nov 0.513 0.297 0.687 13.46 5.6 10.8	212.  dec 0.435 0.071 0.928 2.31 3.0 9.3 -8.0 189. 125.7 dec 0.493 0.297 0.694 12.85 10.2 3.9

	WILMINGTON		(deg)= 39	•		elev (m)=		p05(mm)=		6(mm) = 139		
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.450	0.410	0.451	0.482	0.462	0.393	0.401	0.420	0.437	0.428	0.460	0.476
prw1(m)	0.263	0.282	0.312	0.318	0.291	0.244	0.251	0.244	0.172	0.162	0.245	0.226
alfg(m)	0.783	0.727	0.732	0.771	0.692	0.674	0.578	0.684	0.592	0.667	0.699	0.746
betg(m)	8.51	11.05	11.89	9.58	9.25	13.64	19.66	16.64	21.64	13.97	13.06	12.55
ri(m)	7.6	9.9	12.2	14.7	18.8	28.4	26.9	28.2	28.4	15.5	7.9	17.5
tamx(m)	5.4	6.0	11.7	17.3	23.7	28.4	30.4	29.2	26.0	19.6	12.9	6.6
tamn(m)	-4.1	-4.1	0.0	4.7	10.6	15.8	18.3	17.2		7.3	2.1	-3.2
ra(m)	156.	226.	317.	402.	481.	526.	508.	454.	384.	277.	191.	139.
	JACKSONVILL			0.50 yrs		elev (m)=		tp05(mm)=	,	o6(mm)= 18		doo
month	jan 0./01	feb	mar 0.408	apr	may	jun 0.547	jul	aug 0.584	sep	oct	nov	dec
prw2(m)	0.401	0.398	0.400	0.320	0.477	0.564	0.555		0.598	0.505	0.330	0.370
prw1(m)	0.212	0.253		0.172	0.181	0.294	0.391	0.342	0.320	0.200	0.157 0.665	0.191
alfg(m)	0.677	0.731	0.626	0.670 17.17	0.586	0.651	0.676	0.613	0.622 20.19	0.545		0.677
betg(m)	12.34	17.02	17.60		19.56	20.32	17.93			22.07	10.64	12.70
ri(m)	23.9	28.2	33.5 22.9	36.8 26.4	126.7 30.2	24.4	38.9 33.3	71.4 33.0	42.7 30.9	29.2 26.8	15.7	15.5 19.3
tamx(m)	19.3	20.3 8.1	10.6	14.3		32.5 21.7			21.7	16.6	22.3 10.7	
tamn(m)	7.2	338.		512.	18.4	516.	22.9 483.	22.9				7.5
ra(m)	262.	lat(deg)=	422.	rs= 29.	574.		tp05(mm	478.	413. tp6(mm)=	342.	295.	228.
FLORIDA - I month	miami a jan	feb	mar mar	apr	elev ( may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.328	0.364	0.286	0.345	0.597	0.631	0.624	0.599	0.697	0.650	0.359	0.360
prw1(m)	0.182	0.173	0.174	0.160	0.196	0.413	0.382	0.422	0.401	0.319	0.196	0.142
alfg(m)	0.622	0.634	0.662	0.611	0.601	0.679	0.707	0.635	0.631	0.549	0.549	0.562
betg(m)	14.05	14.66	13.03	18.67	27.71	23.22	14.20	16.69	20.29	26.09	17.27	13.54
ri(m)	22.4	24.9	27.9	31.2	35.6	71.1	44.5	59.7	44.5	43.2	26.9	19.3
tamx(m)	24.3	25.0	26.6	28.1	29.7	31.1	31.6	32.1	31.1	29.3	26.8	25.1
tamn(m)	14.4	14.9	16.2	18.8	20.9	23.1	23.7	23.8	23.7	21.6	18.1	15.1
ra(m)	349.	415.	489.	540.	225.	5.52.	532.	505.	440.	384.	.55.5.	316.
ra(m) FLORIDA -	349. TALLAHASSEE	415. alat	489. (deg)= 30	540. 0.38 yrs=	553. 11.	532. elev (m)=	532. 16.8 t	505. =(mm)=	440. 82.5 tp8	384. 5(mm)= 215	353. .9	316.
	349. TALLAHASSEE jan			540. 0.38 yrs= apr		532. elev (m)= jun				384. 5(mm)= 215 oct		dec
FLORIDA -	TALLAHASSEE	alat	(deg)=30	.38 yrs=	11.	elev (m)=	16.8 t	p05(mm)=	82.5 tp6	6(mm)= 215	.9	
FLORIDA - month	TALLAHASSEE jan	alat feb	(deg)= 30 mar	.38 yrs= apr	11. may	elev (m)= jun	16.8 t jul	p05(mm)= aug	82.5 tpd sep	6(mm)= 215 oct	.9 nov	dec
FLORIDA - month prw2(m)	TALLAHASSEE jan 0.387	alat feb 0.433	(deg)= 30 mar 0.404	0.38 yrs= apr 0.379	11. may 0.483	elev (m)= jun 0.573	16.8 t jul 0.633	p05(mm)= aug 0.577	82.5 tpd sep 0.500	6(mm)= 215 ect 0.437	.9 nov 0.344	dec 0.387
FLORIDA - month prw2(m) prw1(m)	TALLAHASSEE jan 0.387 0.241	alat feb 0.433 0.286	(deg)= 30 mar 0.404 0.225	0.38 yrs= apr 0.379 0.187	11. may 0.483 0.206	elev (m)= jun 0.573 0.304	16.8 t jul 0.633 0.496	p05(mm)= aug 0.577 0.329	82.5 tp6 sep 0.500 0.254	6(mm)= 215 oct 0.437 0.110	.9 nov 0.344 0.163	dec 0.387 0.219
FLORIDA - month prw2(m) prw1(m) alfg(m)	TALLAHASSEE jan 0.387 0.241 0.744	alat feb 0.433 0.286 0.696 21.08 24.1	(deg)= 30 mar 0.404 0.225 0.628	0.38 yrs= apr 0.379 0.187 0.591	may 0.483 0.206 0.722	elev (m)= jun 0.573 0.304 0.652	16.8 t jul 0.633 0.496 0.670	p05(mm)= aug 0.577 0.329 0.745	82.5 tpd sep 0.500 0.254 0.555	6(mm)= 215 cct 0.437 0.110 0.656	.9 0.344 0.163 0.625	dec 0.387 0.219 0.696
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m)	TALLAHASSEE jan 0.387 0.241 0.744 14.81	alat feb 0.433 0.286 0.696 21.08	(deg)= 30 mar 0.404 0.225 0.628 24.71	0.38 yrs= apr 0.379 0.187 0.591 22.89	may 0.483 0.206 0.722 15.95	elev (m)= jun 0.573 0.304 0.652 21.23	16.8 t jul 0.633 0.496 0.670 18.47	p05(mm)= aug 0.577 0.329 0.745 16.89	82.5 tp6 sep 0.500 0.254 0.555 32.72	6(mm)= 215 cet 0.437 0.110 0.656 22.94	.9 0.344 0.163 0.625 19.51	dec 0.387 0.219 0.696 19.81
FLORIDA - ' month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	TALLAHASSEE jan 0.387 0.241 0.744 14.81 41.7	alat feb 0.433 0.286 0.696 21.08 24.1	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3	may 0.483 0.206 0.722 15.95 59.4	elev (m)= jun 0.573 0.304 0.652 21.23 52.6 32.5 21.1	16.8 t jul 0.633 0.496 0.670 18.47 36.8	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7	82.5 tpd sep 0.500 0.254 0.555 32.72 33.8	6(mm)= 215 oct 0.437 0.110 0.656 22.94 35.8	.9 0.344 0.163 0.625 19.51 30.0	dec 0.387 0.219 0.696 19.81 21.8
FLORIDA - ' month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	TALLAHASSEE jan 0.387 0.241 0.744 14.81 41.7 18.4 5.9 274.	el alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311.	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423.	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499.	11. may 0.483 0.206 0.722 15.95 59.4 30.2	elev (m)= jun 0.573 0.304 0.652 21.23 52.6 32.5 21.1 521.	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508.	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542.	82.5 tpd sep 0.500 0.254 0.555 32.72 33.8 30.7	6(mm)= 215 cct 0.437 0.110 0.656 22.94 35.8 27.0	.9 0.344 0.163 0.625 19.51 30.0 21.7	dec 0.387 0.219 0.696 19.81 21.8 18.6
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) FLORIDA -	TALLAHASSEE jan 0.387 0.241 0.744 14.81 41.7 18.4 5.9 274.	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311.	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423.	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3	may 0.483 0.206 0.722 15.95 59.4 30.2 17.4	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)= 5.8	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542.	82.5 tpd sep 0.500 0.254 0.555 32.72 33.8 30.7 20.5	6(mm)= 215 oct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7	.9 0.344 0.163 0.625 19.51 30.0 21.7 8.5	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230.
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) FLORIDA - month	TALLAHASSEE jan 0.387 0.241 0.744 14.81 41.7 18.4 5.9 274. TAMPA a	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311.	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 y	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499.	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev (	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542. )= 88.9 aug	82.5 tpd sep 0.500 0.254 0.555 32.72 33.8 30.7 20.5 451. tp6(mm)=	6(mm)= 215 cct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 cct	.9 0.344 0.163 0.625 19.51 30.0 21.7 8.5 292.	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230.
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) FLORIDA - month prw2(m)	TALLAHASSEE jan 0.387 0.241 0.744 14.81 41.7 18.4 5.9 274. TAMPA a jan 0.309	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311. dat(deg)= feb 0.409	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 y mar 0.397	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499. rrs= 25. apr 0.370	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev ( may 0.359	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun     0.568	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm jul 0.602	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542. )= 88.9 aug 0.583	82.5 tpd sep 0.500 0.254 0.555 32.72 33.8 30.7 20.5 451. tp6(mm)= sep 0.553	5(mm)= 215 cct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 cct 0.438	.9 nov 0.344 0.163 0.625 19.51 30.0 21.7 8.5 292. nov 0.327	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230. dec 0.267
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) FLORIDA - month prw2(m) prw1(m)	TALLAHASSEE	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311. dat(deg)= feb 0.409 0.201	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 y mar 0.397 0.169	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499. (rs= 25. apr 0.370 0.118	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev ( may 0.359 0.169	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun     0.568     0.270	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm jul 0.602 0.436	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542.)= 88.9 aug 0.583 0.474	82.5 tpd sep 0.500 0.254 0.555 32.72 33.8 30.7 20.5 451. tp6(mm)= sep 0.553 0.350	5(mm)= 215 cct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 cct 0.438 0.178	.9 nov 0.344 0.163 0.625 19.51 30.0 21.7 8.5 292. nov 0.327 0.132	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230. dec 0.267 0.181
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamxn(m) ra(m) FLORIDA - month prw2(m) prw1(m) alfg(m)	TALLAHASSEE	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311. dat(deg)= feb 0.409 0.201 0.719	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 y mar 0.397 0.169 0.631	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499. rrs= 25. apr 0.370 0.118 0.687	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev ( may 0.359 0.169 0.578	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun     0.568     0.270     0.655	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm jul 0.602 0.436 0.624	p05(mm)=     aug     0.577     0.329     0.745     16.89     44.7     32.4     22.1     542. )= 88.9     aug     0.583     0.474     0.701	82.5 tpd sep 0.500 0.254 0.555 32.72 33.8 30.7 20.5 451. tp6(mm)= sep 0.553 0.350 0.632	5(mm)= 215 cct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 cct 0.438 0.178 0.672	.9 nov 0.344 0.163 0.625 19.51 30.0 21.7 8.5 292. nov 0.327 0.132 0.641	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230. dec 0.267 0.181 0.687
FLORIDA -  month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) FLORIDA -  month prw2(m) prw1(m) alfg(m) betg(m)	TALLAHASSEE	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311. dat(deg)= feb 0.409 0.201 0.719 16.10	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 y mar 0.397 0.169 0.631 24.16	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499. 499. 499. 499. 499. 499. 499. 4	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev ( may 0.359 0.169 0.578 19.25	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun     0.568     0.270     0.655     18.11	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm jul 0.602 0.436 0.624 20.60	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542.)= 88.9 aug 0.583 0.474 0.701 16.97	82.5 tpd sep 0.500 0.254 0.555 32.72 33.8 30.7 20.5 451. tp6(mm)= sep 0.553 0.350 0.632 18.26	5(mm)= 215 oct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 oct 0.438 0.178 0.672 12.45	.9 0.344 0.163 0.625 19.51 30.0 21.7 8.5 292.  nov 0.327 0.132 0.641 16.41	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230. dec 0.267 0.181 0.687 12.62
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	TALLAHASSEE	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311. lat(deg)= feb 0.409 0.201 0.719 16.10 14.0	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 y mar 0.397 0.169 0.631 24.16 15.2	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499. 499. 499. 0.118 0.687 15.77 19.0	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev ( may 0.359 0.169 0.578 19.25 37.8	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun     0.568     0.270     0.655     18.11     57.7	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm jul 0.602 0.436 0.624 20.60 30.7	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542. )= 88.9 aug 0.583 0.474 0.701 16.97 34.5	82.5 tpd sep 0.500 0.254 0.555 32.72 33.8 30.7 20.5 451. tp6(mm)= sep 0.553 0.350 0.632 18.26 43.9	5(mm)= 215 oct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 oct 0.438 0.178 0.672 12.45 29.2	.9	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230. dec 0.267 0.181 0.687 12.62 10.9
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	TALLAHASSEE	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311. dat(deg)= feb 0.409 0.201 0.719 16.10 14.0 22.7	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 y mar 0.397 0.169 0.631 24.16 15.2 24.4	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499. rs= 25. apr 0.370 0.118 0.687 15.77 19.0 27.4	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev ( may 0.359 0.169 0.578 19.25 37.8 30.6	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun     0.568     0.270     0.655     18.11     57.7     31.9	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm jul 0.602 0.636 0.624 20.60 30.7 32.1	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542. )= 88.9 aug 0.583 0.474 0.701 16.97 34.5 32.4	82.5 tpd sep 0.500 0.254 0.555 32.72 33.8 30.7 20.5 451. tp6(mm)= sep 0.553 0.350 0.632 18.26 43.9 31.5	5(mm)= 215 oct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 oct 0.438 0.178 0.672 12.45 29.2 28.8	.9	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230. dec 0.267 0.181 0.687 12.62 10.9 22.5
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	TALLAHASSEE	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311. dat(deg)= feb 0.409 0.201 0.719 16.10 14.0 22.7 11.4	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 y mar 0.397 0.169 0.631 24.16 15.2 24.4 13.3	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499. (rs= 25. apr 0.370 0.118 0.687 15.77 19.0 27.4 16.3	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev ( may 0.359 0.169 0.578 19.25 37.8 30.6 19.2	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun     0.568     0.270     0.655     18.11     57.7     31.9     22.1	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm jul 0.602 0.436 0.624 20.60 30.7 32.1 23.0	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542. )= 88.9 aug 0.583 0.474 0.701 16.97 34.5 32.4 23.2	82.5 tpd sep 0.500 0.254 0.555 32.72 33.8 30.7 20.5 451. tp6(mm)= sep 0.553 0.350 0.632 43.9 31.5 22.4	5(mm)= 215 oct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 oct 0.438 0.178 0.672 12.45 29.2 28.8 18.7	.9	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230. dec 0.267 0.181 0.687 12.62 10.9 22.5 11.2
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m)	TALLAHASSEE	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311. dat(deg)= feb 0.409 0.201 0.719 16.10 14.0 22.7 11.4 391.	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 ) mar 0.397 0.169 0.631 24.16 15.2 24.4 13.3 474.	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499. 475= 25. apr 0.370 0.118 0.687 15.77 19.0 27.4 16.3 539.	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev ( may 0.359 0.169 0.578 19.25 37.8 30.6 19.2 596.	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun     0.568     0.270     0.655     18.11     57.7     31.9     22.1     574.	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm jul 0.602 0.436 0.624 20.60 30.7 32.1 23.0 534.	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542.)= 88.9 aug 0.583 0.474 0.701 16.97 34.5 32.4 23.2 494.	82.5 tpd sep 0.500 0.254 0.555 32.72 33.8 30.7 20.5 451. tp6(mm)= sep 0.553 0.350 0.632 18.26 43.9 31.5 22.4 452.	5(mm)= 215 oct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 oct 0.438 0.178 0.672 12.45 29.2 28.8 18.7 400.	.9	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230. dec 0.267 0.181 0.687 12.62 10.9 22.5
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamn(m) GEORGIA -	TALLAHASSEE	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311. dat(deg)= feb 0.409 0.201 0.719 16.10 14.0 22.7 11.4 391. alat(deg	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 mar 0.397 0.169 0.631 24.16 15.2 24.4 13.3 474.	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499. 475= 25. apr 0.370 0.118 0.687 15.77 19.0 27.4 16.3 539. yrs= 34.	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev ( may 0.359 0.169 0.578 19.25 37.8 30.6 19.2 596. elev	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun     0.568     0.270     0.655     18.11     57.7     31.9     22.1     574.     (m)=    307.4	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm jul 0.602 0.436 0.624 20.60 30.7 32.1 23.0 534.8	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542.)= 88.9 aug 0.583 0.474 0.701 16.97 34.5 32.4 23.2 494. mm)= 68.6	82.5 tpd	5(mm)= 215 cct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 cct 0.438 0.178 0.672 12.45 29.2 28.8 18.7 400.	.9 0.344 0.163 0.625 19.51 30.0 21.7 8.5 292.  nov 0.327 0.132 0.641 16.41 31.8 24.9 13.8 356.	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230. dec 0.267 0.181 0.687 12.62 10.9 22.5 11.2 300.
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) ra(m) GEORGIA - month	TALLAHASSEE	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311. dat(deg)= feb 0.409 0.201 0.719 16.10 14.0 22.7 11.4 391. alat(deg)=	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 mar 0.397 0.169 0.631 24.16 15.2 24.4 13.3 474.	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499. 478= 25. apr 0.370 0.118 0.687 15.77 19.0 27.4 16.3 539. yrs= 34. apr	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev ( may 0.359 0.169 0.578 19.25 37.8 30.6 19.2 596. elev may	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun     0.568     0.270     0.655     18.11     57.7     31.9     22.1     574.     (m)= 307.4	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm jul 0.602 0.436 0.624 20.60 30.7 32.1 23.0 534.8 tp05(i jul	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542. )= 88.9 aug 0.583 0.474 0.701 16.97 34.5 32.4 24.94. mm)= 68.6 aug	82.5 tpd	6(mm)= 215 cct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 cct 0.438 0.178 0.672 12.45 29.2 28.8 18.7 400.	.9 nov 0.344 0.163 0.625 19.51 30.0 21.7 8.5 292. nov 0.327 0.132 0.641 16.41 31.8 24.9 13.8 356.	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230. dec 0.267 0.181 0.687 12.62 10.9 22.5 11.2 300.
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) month prw2(m)	TALLAHASSEE	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311. dat(deg)= feb 0.409 0.201 0.719 16.10 14.0 22.7 11.4 391. alat(deg) feb 0.490	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 y mar 0.397 0.169 0.631 24.16 15.2 24.4 13.3 474. 1)= 33.65 mar 0.433	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499. 499. 499. 499. 415.77 19.0 27.4 16.3 539. 499. 499. 416.3 539. 499.	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev ( may 0.359 0.169 0.578 19.25 37.8 30.6 19.2 596. elev may 0.462	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun     0.568     0.270     0.655     18.11     57.7     31.9     22.1     574.     (m)=    307.4     jun     0.473	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm jul 0.602 0.436 0.624 20.60 30.7 32.1 23.0 534. 8 tp05(iul 0.548	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542.)= 88.9 aug 0.583 0.474 0.701 16.97 34.5 32.4 23.2 494. mm)= 68.6 aug 0.437	82.5 tpd	5(mm)= 215 oct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 oct 0.438 0.478 0.672 12.45 29.2 28.8 18.7 400. 0= 146.1 oct 0.561	.9	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230. dec 0.267 0.181 0.687 12.62 10.9 22.5 11.2 300. dec 0.468
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) floridamy(m) prw1(m) prw2(m)	TALLAHASSEE	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311. slat(deg)= feb 0.409 0.201 0.719 16.10 14.0 22.7 11.4 391. alat(deg) feb 0.490 0.291	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 y mar 0.397 0.169 0.631 24.16 15.2 24.4 13.3 474. 0)= 33.65 mar 0.433 0.286	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499. 475= 25. apr 0.370 0.118 0.687 15.77 19.0 27.4 16.3 539. yrs= 34. apr 0.426 0.247	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev ( may 0.359 0.169 0.578 19.25 37.8 30.6 19.2 596. elev may 0.462 0.188	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun     0.568     0.270     0.655     18.11     57.7     31.9     22.1     574.     (m)= 307.8     jun     0.473     0.258	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm jul 0.602 0.436 0.624 20.60 30.7 32.1 23.0 tp05(jul 0.548 0.318	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542. )= 88.9 aug 0.583 0.474 0.701 16.97 34.5 32.4 23.2 494. mm)= 68.6 aug 0.437 0.208	82.5 tpd	5(mm)= 215 oct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 oct 0.438 0.178 0.672 12.45 29.2 28.8 18.7 400. 0= 146.1 oct 0.561 0.119	.9	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230. dec 0.267 0.181 0.687 12.62 10.9 22.5 11.2 300. dec 0.468 0.258
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamn(m) ra(m) FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) famx(m)	TALLAHASSEE	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311. dat(deg)= feb 0.409 0.201 0.719 16.10 14.0 22.7 11.4 391. alat(deg feb 0.499 0.291 0.727	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 y mar 0.397 0.169 0.631 24.16 15.2 24.4 13.3 474. ()= 33.65 mar 0.433 0.286 0.689	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499. 499. 499. 410.370 0.118 0.687 15.77 19.0 27.4 16.3 539. 499. 410.3	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev ( may 0.359 0.578 19.25 37.8 30.6 19.2 596. elev may 0.462 0.188 0.728	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun     0.568     0.270     0.655     18.11     57.7     31.9     22.1     jun     0.473     0.258     0.765	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm jul 0.602 0.436 0.624 20.60 30.7 32.1 23.0 534. 8 tp05(i jul 0.548 0.318 0.681	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542. )= 88.9 aug 0.583 0.474 0.701 16.97 34.5 32.4 23.2 494. mm)= 68.6 aug 0.437 0.208 0.711	82.5 tpd	5(mm)= 215 oct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 oct 0.438 0.178 0.672 12.45 29.2 28.8 18.7 400. 0= 146.1 oct 0.561 0.119 0.622	.9	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230. dec 0.267 0.181 0.687 12.62 10.9 22.5 11.2 300. dec 0.258 0.258
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamx(m) tamn(m) ra(m) FLORIDA - month prw2(m) prw1(m) alfg(m) tamx(m) tamx(m) tamx(m) fcore (m) ra(m) fcore (m) ra(m) fcore (m) fc	TALLAHASSEE	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311. dat(deg)= feb 0.409 0.201 0.719 16.10 14.0 22.7 11.4 391. alat(deg feb 0.499 0.291 0.727 15.70	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 y mar 0.397 0.169 0.631 24.16 15.2 24.4 13.3 474. ()= 33.65 mar 0.433 0.286 0.689 18.64	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499. 499. 499. 499. 410.370 0.118 0.687 15.77 19.0 27.4 16.3 539. 499. 499. 410.370 0.118 0.687 15.77 19.0 27.4 16.3 18.21	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev ( may 0.359 0.169 0.578 19.25 37.8 30.6 19.2 596. elev may 0.462 0.188 0.728 15.57	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun     0.568     0.270     0.655     18.11     57.7     31.9     22.1     574.     (m)=    307.4     jun     0.473     0.258     0.765     11.51	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm jul 0.602 0.636 0.624 20.60 30.7 32.1 23.0 534. 8 tp05(iiii) jul 0.548 0.318 0.681 14.50	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542. )= 88.9 aug 0.583 0.474 0.701 16.97 34.5 32.4 23.2 494. mm)= 68.6 aug 0.437 0.208 0.711 14.25	82.5 tpd	5(mm)= 215 oct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 oct 0.438 0.178 0.672 12.45 29.2 28.8 18.7 400. 0= 146.1 oct 0.561 0.119 0.622 15.93	.9	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230. dec 0.267 0.181 0.687 12.62 10.9 22.5 11.2 300. dec 0.258 0.258 0.743 14.96
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) fLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) famn(m) ra(m) prw2(m) prw2(m) prw2(m) prw2(m) prw2(m) prw1(m) alfg(m) betg(m)	TALLAHASSEE	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311. dat(deg)= feb 0.409 0.201 0.719 16.10 14.0 22.7 11.4 391. alat(deg)= feb 0.499 0.291 0.727 15.70 15.2	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 y mar 0.397 0.169 0.631 24.16 15.2 24.4 13.3 474. ()= 33.65 mar 0.433 0.286 0.689 18.64 26.2	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499. 478= 25. apr 0.370 0.118 0.687 15.77 19.0 27.4 16.3 539. yrs= 34. apr 0.426 0.247 0.723 18.21 23.1	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev ( may 0.359 0.169 0.578 19.25 37.8 30.6 19.2 596. elev may 0.462 0.188 0.728 15.57 30.7	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun     0.568     0.270     0.655     18.11     57.7     31.9     22.1     574.     (m)=    307.4     jun     0.473     0.258     0.765     11.51     29.7	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm jul 0.602 0.624 20.60 30.7 32.1 23.0 534. 8 tp05(jul 0.548 0.548 0.318 0.681 14.50 42.2	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542. )= 88.9 aug 0.583 0.474 0.701 16.97 34.5 32.4 23.2 494. mm)= 68.6 aug 0.437 0.208 0.701 14.25 30.0	82.5 tpd	5(mm)= 215 oct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 oct 0.438 0.178 0.672 12.45 29.2 28.8 18.7 400. )= 146.1 oct 0.561 0.119 0.622 15.93 32.8	.9	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230. dec 0.267 0.181 0.687 12.62 10.9 22.5 11.2 300. dec 0.468 0.258 0.743 14.96 21.1
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) fLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamx(m) tamn(m) ra(m) fLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) ra(m) fLORIDA - month prw2(m) prw1(m) prw2(m) prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	TALLAHASSEE	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311. dat(deg)= feb 0.409 0.201 0.719 16.10 14.0 22.7 11.4 391. alat(deg)= feb 0.490 0.291 0.727 15.70 15.2 12.1	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 0.397 0.169 0.631 24.16 15.2 24.4 13.3 474. 1)= 33.65 mar 0.433 0.286 0.689 18.64 26.2 15.7	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499. (rs= 25. apr 0.370 0.118 0.687 15.77 19.0 27.4 16.3 539. yrs= 34. apr 0.426 0.247 0.723 18.21 23.1 21.2	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev ( may 0.359 0.169 0.578 19.25 37.8 30.6 19.2 596. elev may 0.462 0.188 0.728 15.57 30.7 26.1	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun     0.568     0.270     0.655     18.11     57.7     31.9     22.1     574.     (m)=    307.4     jun     0.473     0.258     0.765     11.51     29.7     29.8	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm jul 0.602 0.436 0.624 20.60 30.7 32.1 23.0 534. 8 tp05(jul 0.548 0.548 0.318 0.318 0.318 0.318	p05(mm)=     aug     0.577     0.329     0.745     16.89     44.7     32.4     22.1     542. )= 88.9     aug     0.583     0.474     0.701     16.97     34.5     32.4     23.2     494. mm)= 68.6     aug     0.437     0.208     0.711     14.25     30.0     30.3	82.5 tpd	5(mm)= 215 oct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 oct 0.438 0.178 0.672 12.45 29.2 28.8 18.7 400. )= 146.1 oct 0.561 0.119 0.622 15.93 32.8 22.4	.9	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230. dec 0.267 0.181 0.687 12.62 10.9 22.5 11.2 300. dec 0.468 0.258 0.743 14.96 21.1 11.3
FLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) fLORIDA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) famn(m) ra(m) prw2(m) prw2(m) prw2(m) prw2(m) prw2(m) prw1(m) alfg(m) betg(m)	TALLAHASSEE	alat feb 0.433 0.286 0.696 21.08 24.1 19.4 6.8 311. dat(deg)= feb 0.409 0.201 0.719 16.10 14.0 22.7 11.4 391. alat(deg)= feb 0.499 0.291 0.727 15.70 15.2	(deg)= 30 mar 0.404 0.225 0.628 24.71 43.2 22.3 9.4 423. 27.97 y mar 0.397 0.169 0.631 24.16 15.2 24.4 13.3 474. ()= 33.65 mar 0.433 0.286 0.689 18.64 26.2	0.38 yrs= apr 0.379 0.187 0.591 22.89 34.8 26.1 13.3 499. 478= 25. apr 0.370 0.118 0.687 15.77 19.0 27.4 16.3 539. yrs= 34. apr 0.426 0.247 0.723 18.21 23.1	11. may 0.483 0.206 0.722 15.95 59.4 30.2 17.4 547. elev ( may 0.359 0.169 0.578 19.25 37.8 30.6 19.2 596. elev may 0.462 0.188 0.728 15.57 30.7	elev (m)=     jun     0.573     0.304     0.652     21.23     52.6     32.5     21.1     521. m)=    5.8     jun     0.568     0.270     0.655     18.11     57.7     31.9     22.1     574.     (m)=    307.4     jun     0.473     0.258     0.765     11.51     29.7	16.8 t jul 0.633 0.496 0.670 18.47 36.8 32.5 22.2 508. tp05(mm jul 0.602 0.624 20.60 30.7 32.1 23.0 534. 8 tp05(jul 0.548 0.548 0.318 0.681 14.50 42.2	p05(mm)= aug 0.577 0.329 0.745 16.89 44.7 32.4 22.1 542. )= 88.9 aug 0.583 0.474 0.701 16.97 34.5 32.4 23.2 494. mm)= 68.6 aug 0.437 0.208 0.701 14.25 30.0	82.5 tpd	5(mm)= 215 oct 0.437 0.110 0.656 22.94 35.8 27.0 14.8 378. 205.7 oct 0.438 0.178 0.672 12.45 29.2 28.8 18.7 400. )= 146.1 oct 0.561 0.119 0.622 15.93 32.8	.9	dec 0.387 0.219 0.696 19.81 21.8 18.6 6.0 230. dec 0.267 0.181 0.687 12.62 10.9 22.5 11.2 300. dec 0.468 0.258 0.743 14.96 21.1

GEORGIA - A								. =				
month	_		)= 33.37	yrs= 18.		(m)≈ 41.		nn)= 71.1	tp6(mm)=			
	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.477	0.434	0.473	0.436 0.220	0.503	0.492 0.227	0.532 0.271	0.437	0.458	0.482	0.414	0.456
prw1(m)	0.232	0.290	0.253		0.183			0.233	0.180	0.113	0.165	0.220
alfg(m)	0.733	0.797	0.689	0.637	0.754	0.813	0.614	0.641	0.694	0.643	0.618	0.738
betg(m)	13.41	13.64	16.61	16.69	14.12 35.6	12.98 34.8	17.68 40.9	17.65 38.4	16.05	14.17	11.76	12.42
ri(m)	18.0	16.0	17.5 19.6	21.1 24.7	29.1	32.6	32.9		50.0	37.1 25.6	13.5	15.2
tamx(m)	15.0	16.4 2.8	5.8	9.9	14.9	19.6	21.1	32.8 20.7	30.3 17.8	11.3	19.8 4.7	15.2
tamn(m)	2.1 224.	285.	375.	512.	560.	567.	546.	512.	425.	358.	273.	1.7 191.
ra(m) GEORGIA - M		alat(deg)=				n)= 107.9	tp05(mm)		:p6(mm)= 1		213.	171.
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.468	0.519	0.478	0.398	0.524	0.472	0.559	0.502	0.503	0.492	0.370	0.442
prw1(m)	0.250	0.283	0.263	0.214	0.182	0.257	0.340	0.239	0.184	0.118	0.176	0.248
alfg(m)	0.701	0.799	0.666	0.632	0.597	0.637	0.692	0.751	0.623	0.594	0.734	0.756
betg(m)	13.39	14.20	18.03	17.60	18.54	16.00	12.98	11.99	16.03	16.59	11.10	14.73
ri(m)	18.3	21.3	20.3	30.0	24.6	44.7	25.4	37.1	37.3	14.5	14.7	11.4
tamx(m)	15.7	17.1	20.5	25.7	30.3	33.7	33.8	33.4	30.8	25.9	20.0	15.6
tamn(m)	3.4	4.1	7.1	11.6	16.2	20.4	21.7	21.3	18.5	12.1	5.9	3.3
ra(m)	237.	298.	388.	525.	573.	580.	559.	525.	438.	371.	286.	204.
GEORGIA - SA	AVANAH	alat(deg	)= 32.13	yrs= 18.	elev	(m) = 0.	0 tp05(m	m) = 81.3	tp6(mm)=	177.5		
month	Jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.439	0.417	0.418	0.321	0.452	0.551	0.577	0.551	0.502	0.463	0.375	0.331
prw1(m)	8.229	0.283	0.251	0.194	0.203	0.264	0.394	0.292	0.244	0.131	0.158	0.215
alfg(m)	0.737	0.718	0.710	0.712	0.626	0.689	0.671	0.653	0.622	0.582	0.600	0.795
betg(m)	11.58	12.67	15.29	15.82	21.87	19.68	20.27	20.90	20.95	17.58	12.04	11.02
ri(m)	14.2	19.0	14.0	49.8	48.3	29.7	49.8	41.7	47.0	39.1	12.4	18.3
tamx(m)	16.9	18.0	20.9	25.2	29.3	32.3	32.9	32.7	29.9	25.6	20.6	17.0
tamn(m)	4.9	5.4	8.3	12.3	16.7	20.6	21.9	21.8	19.7	13.5	7.5	4.6
ra(m)	260.	322.	396.	520.	<b>5</b> 59.	572.	528.	509.	412.	346.	294.	233.
IDAHO - BOIS		at(deg) = 4	3.57 yrs	s= 31.	elev (m):			19.0 tp6	(mn) = 44	.5		
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.595	0.559	0.459	0.406	0.476	0.464	0.250	0.353	0.370	0.480		
prw1(m)	0.317									0.389	0.534	0.543
6 d d m / m \		0.235	0.223	0.211	0.196	0.150	0.053	0.063	0.083	0.152	0.213	0.271
alfg(m)	0.846	0.920	0.998	0.841	0.740	0.150 0.854	0.053	0.063 0.676	0.083 0.801	0.152 0.998	0.213 0.998	0.271
betg(m)	0.846 3.76	0.920 2.92	0.998 2.57	0.841 4.57	0.740 5.36	0.150 0.854 4.47	0.053 0.826 2.87	0.063 0.676 5.13	0.083 0.801 4.04	0.152 0.998 2.92	0.213 0.998 3.53	0.271 0.883 3.25
betg(m) ri(m)	0.846 3.76 2.3	0.920 2.92 7.1	0.998 2.57 4.6	0.841 4.57 4.8	0.740 5.36 5.3	0.150 0.854 4.47 7.4	0.053 0.826 2.87 7.9	0.063 0.676 5.13 14.0	0.083 0.801 4.04 3.6	0.152 0.998 2.92 4.3	0.213 0.998 3.53 228.6	0.271 0.883 3.25 127.0
betg(m) ri(m) tamx(m)	0.846 3.76 2.3 2.3	0.920 2.92 7.1 5.8	0.998 2.57 4.6 10.8	0.841 4.57 4.8 17.4	0.740 5.36 5.3 22.2	0.150 0.854 4.47 7.4 26.9	0.053 0.826 2.87 7.9 33.0	0.063 0.676 5.13 14.0 31.5	0.083 0.801 4.04 3.6 26.0	0.152 0.998 2.92 4.3 18.5	0.213 0.998 3.53 228.6 9.1	0.271 0.883 3.25 127.0 4.1
betg(m) ri(m) tamx(m) tamn(m)	0.846 3.76 2.3 2.3 -5.5	0.920 2.92 7.1 5.8 -3.1	0.998 2.57 4.6 10.8 -0.1	0.841 4.57 4.8 17.4 3.0	0.740 5.36 5.3 22.2 6.9	0.150 0.854 4.47 7.4 26.9 10.6	0.053 0.826 2.87 7.9 33.0 15.0	0.063 0.676 5.13 14.0 31.5	0.083 0.801 4.04 3.6 26.0 8.1	0.152 0.998 2.92 4.3 18.5 3.3	0.213 0.998 3.53 228.6 9.1 -1.8	0.271 0.883 3.25 127.0 4.1 -3.9
betg(m) ri(m) tamx(m) tamr(m) ra(m)	0.846 3.76 2.3 2.3 -5.5 138.	0.920 2.92 7.1 5.8 -3.1 236.	0.998 2.57 4.6 10.8 -0.1 342.	0.841 4.57 4.8 17.4 3.0 485.	0.740 5.36 5.3 22.2 6.9 585.	0.150 0.854 4.47 7.4 26.9 10.6 636.	0.053 0.826 2.87 7.9 33.0 15.0 670.	0.063 0.676 5.13 14.0 31.5 13.1 576.	0.083 0.801 4.04 3.6 26.0 8.1 460.	0.152 0.998 2.92 4.3 18.5 3.3	0.213 0.998 3.53 228.6 9.1	0.271 0.883 3.25 127.0 4.1
betg(m) ri(m) tamx(m) tamn(m) ra(m) IDAHO - POC/	0.846 3.76 2.3 2.3 -5.5 138.	0.920 2.92 7.1 5.8 -3.1 236. alat(deg	0.998 2.57 4.6 10.8 -0.1 342. )= 42.92	0.841 4.57 4.8 17.4 3.0 485. yrs= 21.	0.740 5.36 5.3 22.2 6.9 585. elev	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357.	0.053 0.826 2.87 7.9 33.0 15.0 670.	0.063 0.676 5.13 14.0 31.5 13.1 576.	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)=	0.152 0.998 2.92 4.3 18.5 3.3 301.	0.213 0.998 3.53 228.6 9.1 -1.8 182.	0.271 0.883 3.25 127.0 4.1 -3.9 124.
betg(m) ri(m) tamx(m) tamn(m) ra(m) IDAHO - POC/ month	0.846 3.76 2.3 2.3 -5.5 138. ATELLO Jan	0.920 2.92 7.1 5.8 -3.1 236. alat(deg	0.998 2.57 4.6 10.8 -0.1 342. )= 42.92 mar	0.841 4.57 4.8 17.4 3.0 485. yrs= 21. apr	0.740 5.36 5.3 22.2 6.9 585. elev	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357.	0.053 0.826 2.87 7.9 33.0 15.0 670.	0.063 0.676 5.13 14.0 31.5 13.1 576. m)= 25.4 aug	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct	0.213 0.998 3.53 228.6 9.1 -1.8 182.	0.271 0.883 3.25 127.0 4.1 -3.9 124.
betg(m) ri(m) tamx(m) tamn(m) ra(m) IDAHO - POC/ month prw2(m)	0.846 3.76 2.3 2.3 -5.5 138. ATELLO jan 0.511	0.920 2.92 7.1 5.8 -3.1 236. alat(deg feb 0.524	0.998 2.57 4.6 10.8 -0.1 342. )= 42.92 mar 0.479	0.841 4.57 4.8 17.4 3.0 485. yrs= 21. apr 0.380	0.740 5.36 5.3 22.2 6.9 585. elev may 0.508	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357. jun 0.509	0.053 0.826 2.87 7.9 33.0 15.0 670. \$p05(m jul 0.286	0.063 0.676 5.13 14.0 31.5 13.1 576. m)= 25.4 aug 0.360	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep 0.353	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct 0.370	0.213 0.998 3.53 228.6 9.1 -1.8 182. nov 0.450	0.271 0.883 3.25 127.0 4.1 -3.9 124. dec 0.548
betg(m) ri(m) tamx(m) tamx(m) ra(m) IDAHO - POC/ month prw2(m) prw1(m)	0.846 3.76 2.3 2.3 -5.5 138. ATELLO jan 0.511 0.289	0.920 2.92 7.1 5.8 -3.1 236. alat(deg feb 0.524 0.253	0.998 2.57 4.6 10.8 -0.1 342. )= 42.92 mar 0.479 0.230	0.841 4.57 4.8 17.4 3.0 485. yrs= 21. apr 0.380 0.213	0.740 5.36 5.3 22.2 6.9 585. elev may 0.508 0.194	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357.i jum 0.509 0.169	0.053 0.826 2.87 7.9 33.0 15.0 670. \$ p05(m jul 0.286 0.095	0.063 0.676 5.13 14.0 31.5 13.1 576. m)= 25.4 aug 0.360 0.107	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep 0.353 0.099	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct 0.370 0.110	0.213 0.998 3.53 228.6 9.1 -1.8 182. nov 0.450 0.194	0.271 0.883 3.25 127.0 4.1 -3.9 124. dec 0.548 0.259
betg(m) ri(m) ri(m) tamx(m) tamxn(m) ra(m) IDAHO - POC/ month prw2(m) prw1(m) alfg(m)	0.846 3.76 2.3 2.3 -5.5 138. ATELLO jan 0.511 0.289 0.949	0.920 2.92 7.1 5.8 -3.1 236. alat(deg feb 0.524 0.253 0.998	0.998 2.57 4.6 10.8 -0.1 342.)= 42.92 mar 0.479 0.230 0.998	0.841 4.57 4.8 17.4 3.0 485. yrs= 21. apr 0.380 0.213 0.998	0.740 5.36 5.3 22.2 6.9 585. elev may 0.508 0.194 0.794	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357.ijun 0.509 0.169 0.824	0.053 0.826 2.87 7.9 33.0 15.0 670. \$ tp05(m jul 0.286 0.095 0.850	0.063 0.676 5.13 14.0 31.5 13.1 576. m)= 25.4 aug 0.360 0.107 0.706	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep 0.353 0.099 0.836	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct 0.370 0.110 0.884	0.213 0.998 3.53 228.6 9.1 -1.8 182. nov 0.450 0.194 0.987	0.271 0.883 3.25 127.0 4.1 -3.9 124. dec 0.548 0.259 0.992
betg(m) ri(m) ra(m) tamx(m) ra(m) IDAHO - POC/ month prw2(m) prw1(m) alfg(m) betg(m)	0.846 3.76 2.3 2.3 -5.5 138. ATELLO jan 0.511 0.289 0.949 2.46	0.920 2.92 7.1 5.8 -3.1 236. alat(deg feb 0.524 0.253 0.998 2.03	0.998 2.57 4.6 10.8 -0.1 342.)= 42.92 mar 0.479 0.230 0.998 2.08	0.841 4.57 4.8 17.4 3.0 485. yrs= 21. apr 0.380 0.213 0.998 3.68	0.740 5.36 5.3 22.2 6.9 585. elev may 0.508 0.194 0.794 4.24	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357. jun 0.509 0.169 0.824 4.70	0.053 0.826 2.87 7.9 33.0 15.0 670. 5 tp05(m jul 0.286 0.095 0.850 2.82	0.063 0.676 5.13 14.0 31.5 13.1 576. m)= 25.4 aug 0.360 0.107 0.706 5.05	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep 0.353 0.099 0.836 3.71	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct 0.370 0.110 0.884 4.19	0.213 0.998 3.53 228.6 9.1 -1.8 182. nov 0.450 0.194 0.987 2.82	0.271 0.883 3.25 127.0 4.1 -3.9 124. dec 0.548 0.259 0.992 2.29
betg(m) ri(m) ramx(m) tamx(m) ra(m) IDAHO - POC/ month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	0.846 3.76 2.3 2.3 -5.5 138. ATELLO jan 0.511 0.289 0.949 2.46 2.0	0.920 2.92 7.1 5.8 -3.1 236. alat(deg feb 0.524 0.253 0.998 2.03 3.0	0.998 2.57 4.6 10.8 -0.1 342. )= 42.92 mar 0.479 0.230 0.998 2.08 2.8	0.841 4.57 4.8 17.4 3.0 485. yrs= 21. apr 0.380 0.213 0.998 3.68 3.0	0.740 5.36 5.3 22.2 6.9 585. elev may 0.508 0.194 0.794 4.24 3.6	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357. jum 0.509 0.169 0.824 4.70 7.9	0.053 0.826 2.87 7.9 33.0 15.0 670. \$p05(m 0.286 0.095 0.850 2.82 12.7	0.063 0.676 5.13 14.0 31.5 13.1 576. m)= 25.4 aug 0.360 0.107 0.706 5.05 3.8	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep 0.353 0.099 0.836 3.71 4.6	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct 0.370 0.110 0.884 4.19 13.7	0.213 0.998 3.53 228.6 9.1 -1.8 182. nov 0.450 0.194 0.987 2.82 3.0	0.271 0.883 3.25 127.0 4.1 -3.9 124. dec 0.548 0.259 0.992 2.29 1.8
betg(m) ri(m) tamx(m) tamn(m) ra(m) IDAHO - POC/ month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	0.846 3.76 2.3 2.3 -5.5 138. ATELLO jan 0.511 0.289 0.949 2.46 2.0 -0.2	0.920 2.92 7.1 5.8 -3.1 236. alat(deg feb 0.524 0.253 0.998 2.03 3.0 2.5	0.998 2.57 4.6 10.8 -0.1 342. )= 42.92 mar 0.479 0.230 0.998 2.08 2.8 7.8	0.841 4.57 4.8 17.4 3.0 485. yrs= 21. apr 0.380 0.213 0.998 3.68 3.0 15.4	0.740 5.36 5.3 22.2 6.9 585. elev may 0.508 0.194 0.794 4.24 3.6 20.7	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357. jum 0.509 0.169 0.824 4.70 7.9 25.4	0.053 0.826 2.87 7.9 33.0 15.0 670. \$p05(m) 0.286 0.850 2.82 12.7 32.0	0.063 0.676 5.13 14.0 31.5 13.1 576. m)= 25.4 aug 0.360 0.107 0.706 5.05 3.8 30.8	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep 0.353 0.099 0.836 3.71 4.6 25.0	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct 0.370 0.110 0.884 4.19 13.7 17.7	0.213 0.998 3.53 228.6 9.1 -1.8 182. nov 0.450 0.194 0.987 2.82 3.0 7.4	0.271 0.883 3.25 127.0 4.1 -3.9 124. dec 0.548 0.259 0.992 2.29 1.8 2.4
betg(m) ri(m) tamx(m) tamn(m) ra(m) IDAHO - POC/ month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m)	0.846 3.76 2.3 2.3 -5.5 138. ATELLO jan 0.511 0.289 0.949 2.46 2.0 -0.2 -10.6	0.920 2.92 7.1 5.8 -3.1 236. alat(deg feb 0.524 0.253 0.998 2.03 3.0 2.5 -7.9	0.998 2.57 4.6 10.8 -0.1 342. )= 42.92 mar 0.479 0.230 0.998 2.08 2.8 7.8 -3.6	0.841 4.57 4.8 17.4 3.0 485. yrs= 21. apr 0.380 0.213 0.998 3.68 3.0 15.4 0.7	0.740 5.36 5.3 22.2 6.9 585. elev may 0.508 0.194 0.794 4.24 3.6 20.7 4.9	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357. jum 0.509 0.169 0.824 4.70 7.9 25.4 8.7	0.053 0.826 2.87 7.9 33.0 15.0 670. tp05(m jul 0.286 0.095 0.850 2.82 12.7 32.0 12.8	0.063 0.676 5.13 14.0 31.5 13.1 576. m)= 25.4 aug 0.360 0.107 0.706 5.05 3.8 30.8 11.5	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep 0.353 0.099 0.836 3.71 4.6 25.0 6.4	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct 0.370 0.110 0.884 4.19 13.7 17.7	0.213 0.998 3.53 228.6 9.1 -1.8 182. nov 0.450 0.194 0.987 2.82 3.0 7.4 -4.2	0.271 0.883 3.25 127.0 4.1 -3.9 124. dec 0.548 0.259 0.992 2.29 1.8 2.4 -7.5
betg(m) ri(m) ramx(m) tamx(m) ra(m) IDAHO - POC/ month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m)	0.846 3.76 2.3 2.3 -5.5 138. ATELLO jan 0.511 0.289 0.949 2.46 2.0 -0.2 -10.6 162.	0.920 2.92 7.1 5.8 -3.1 236. alat(deg feb 0.524 0.253 0.998 2.03 3.0 2.5 -7.9 239.	0.998 2.57 4.6 10.8 -0.1 342.)= 42.92 mar 0.479 0.230 0.998 2.08 2.8 7.8 -3.6 354.	0.841 4.57 4.8 17.4 3.0 485. yrs= 21. apr 0.380 0.213 0.998 3.68 3.0 15.4 0.7	0.740 5.36 5.3 22.2 6.9 585. elev may 0.508 0.194 0.794 4.24 3.6 20.7 4.9 551.	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357. jum 0.509 0.169 0.824 4.70 7.9 25.4 8.7 591.	0.053 0.826 2.87 7.9 33.0 15.0 670. tp05(m jul 0.286 0.095 0.850 2.82 12.7 32.0 12.8 601.	0.063 0.676 5.13 14.0 31.5 13.1 576. m)= 25.4 aug 0.360 0.107 0.706 5.05 3.8 30.8 11.5 539.	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep 0.353 0.099 0.836 3.71 4.6 25.0 6.4 431.	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct 0.370 0.110 0.884 4.19 13.7 17.7 1.3 285.	0.213 0.998 3.53 228.6 9.1 -1.8 182. nov 0.450 0.194 0.987 2.82 3.0 7.4	0.271 0.883 3.25 127.0 4.1 -3.9 124. dec 0.548 0.259 0.992 2.29 1.8 2.4
betg(m) ri(m) tamx(m) tamn(m) ra(m) IDAHO - POC/ month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) ILLINOIS - (	0.846 3.76 2.3 2.3 -5.5 138. ATELLO jan 0.511 0.289 0.949 2.46 2.0 -0.2 -10.6 162. CHICAGO	0.920 2.92 7.1 5.8 -3.1 236. alat(deg feb 0.524 0.253 0.998 2.03 3.0 2.5 -7.9 239. alat(de	0.998 2.57 4.6 10.8 -0.1 342.) = 42.92 mar 0.479 0.230 0.998 2.08 2.8 7.8 -3.6 354. g)= 41.98	0.841 4.57 4.8 17.4 3.0 485. yrs= 21. apr 0.380 0.213 0.998 3.68 3.0 15.4 0.7 461. yrs= 26.	0.740 5.36 5.3 22.2 6.9 585. elev may 0.508 0.194 0.794 4.24 3.6 20.7 4.9 551. elev	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357. jun 0.509 0.169 0.824 4.70 7.9 25.4 8.7 591.	0.053 0.826 2.87 7.9 33.0 15.0 670. 6 pp5(m jul 0.286 0.095 0.850 2.82 12.7 32.0 12.8 601. .0 tp05(m	0.063 0.676 5.13 14.0 31.5 13.1 576. m) = 25.4 aug 0.360 0.107 0.706 5.05 3.8 30.8 11.5 539.	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep 0.353 0.099 0.836 3.71 4.6 25.0 6.4 431. tp6(mm)=	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct 0.370 0.110 0.884 4.19 13.7 17.7 1.3 285. = 106.7	0.213 0.998 3.53 228.6 9.1 -1.8 182. nov 0.450 0.194 0.987 2.82 3.0 7.4 -4.2 175.	0.271 0.883 3.25 127.0 4.1 -3.9 124. dec 0.548 0.259 0.992 2.29 1.8 2.4 -7.5 130.
betg(m) ri(m) ra(m) tamx(m) ra(m) IDAHO - POC/ month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) ILLINOIS - ( month	0.846 3.76 2.3 2.3 -5.5 138. ATELLO jan 0.511 0.289 0.949 2.46 2.0 -0.2 -10.6 162. CHICAGO jan	0.920 2.92 7.1 5.8 -3.1 236. alat(deg feb 0.524 0.253 0.998 2.03 3.0 2.5 -7.9 239. alat(de	0.998 2.57 4.6 10.8 -0.1 342. )= 42.92 mar 0.479 0.230 0.998 2.08 2.8 7.8 -3.6 354. g)= 41.98	0.841 4.57 4.8 17.4 3.0 485. yrs= 21. apr 0.380 0.213 0.998 3.68 3.0 15.4 0.7 461. yrs= 26. apr	0.740 5.36 5.3 22.2 6.9 585. elev may 0.508 0.194 0.794 4.24 3.6 20.7 4.9 551. elev	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357.jum 0.509 0.169 0.824 4.70 7.9 25.4 8.7 591. / (m)= 185 jum	0.053 0.826 2.87 7.9 33.0 15.0 670. \$ p05(m jul 0.286 0.095 0.850 2.82 12.7 32.0 12.8 601. .0 tp05(jul	0.063 0.676 5.13 14.0 31.5 13.1 576. m) = 25.4 aug 0.360 0.107 0.706 5.05 3.8 30.8 11.5 539. mm) = 55.9 aug	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep 0.353 0.099 0.836 3.71 4.6 25.0 6.4 431. tp6(mm)=	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct 0.370 0.110 0.884 4.19 13.7 17.7 1.3 285. = 106.7 oct	0.213 0.998 3.53 228.6 9.1 -1.8 182. nov 0.450 0.194 0.987 2.82 3.0 7.4 -4.2 175.	0.271 0.883 3.25 127.0 4.1 -3.9 124. dec 0.548 0.259 0.992 2.29 1.8 2.4 -7.5 130. dec
betg(m) ri(m) ri(m) tamx(m) tamn(m) ra(m) IDAHO - POC/ month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) ILLINOIS - ( month prw2(m)	0.846 3.76 2.3 2.3 -5.5 138. ATELLO jan 0.511 0.289 0.949 2.46 2.0 -0.2 -10.6 162. CHICAGO jan 0.430	0.920 2.92 7.1 5.8 -3.1 236. alat(deg feb 0.524 0.253 0.998 2.03 3.0 2.5 -7.9 239. alat(de	0.998 2.57 4.6 10.8 -0.1 342. )= 42.92 mar 0.479 0.230 0.998 2.08 2.8 7.8 -3.6 354. g)= 41.98	0.841 4.57 4.8 17.4 3.0 485. yrs= 21. apr 0.380 0.213 0.998 3.68 3.0 15.4 0.7 461. yrs= 26. apr 0.559	0.740 5.36 5.3 22.2 6.9 585. elev may 0.508 0.194 0.794 4.24 3.6 20.7 4.9 551. elev may	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357.i jum 0.509 0.169 0.824 4.70 7.9 25.4 8.7 591. (m)= 185 jum 0.458	0.053 0.826 2.87 7.9 33.0 15.0 670. 6 p05(m jul 0.286 0.095 0.850 2.82 12.7 32.0 12.8 601. 0.437	0.063 0.676 5.13 14.0 31.5 13.1 576. m) = 25.4 aug 0.360 0.107 0.706 5.05 3.8 30.8 11.5 539. mm) = 55.9 aug 0.357	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep 0.353 0.099 0.836 3.71 4.6 25.0 6.4 431. tp6(mm)sep 0.455	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct 0.370 0.110 0.884 4.19 13.7 17.7 1.3 285. = 106.7 oct 0.456	0.213 0.998 3.53 228.6 9.1 -1.8 182. nov 0.450 0.194 0.987 2.82 3.0 7.4 -4.2 175.	0.271 0.883 3.25 127.0 4.1 -3.9 124. dec 0.548 0.259 0.992 2.29 1.8 2.4 -7.5 130. dec 0.483
betg(m) ri(m) ri(m) tamx(m) tamn(m) ra(m) IDAHO - POC/ month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tam(m) ILLINOIS - ( month prw2(m) prw1(m)	0.846 3.76 2.3 2.3 -5.5 138. ATELLO jan 0.511 0.289 0.949 2.46 2.0 -0.2 -10.6 162. CHICAGO jan 0.430 0.291	0.920 2.92 7.1 5.8 -3.1 236. alat(deg feb 0.524 0.253 0.998 2.03 3.0 2.5 -7.9 239. alat(de feb 0.430 0.285	0.998 2.57 4.6 10.8 -0.1 342. )= 42.92 mar 0.479 0.230 0.998 2.08 2.8 7.8 -3.6 354. g)= 41.98 mar 0.485 0.330	0.841 4.57 4.8 17.4 3.0 485. yrs= 21. apr 0.380 0.213 0.998 3.68 3.0 15.4 0.7 461. yrs= 26. apr 0.559 0.332	0.740 5.36 5.3 22.2 6.9 585. elev may 0.508 0.194 0.794 4.24 3.6 20.7 4.9 551. elev may 0.441 0.293	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357. jum 0.509 0.169 0.824 4.70 7.9 25.4 8.7 591. (m)= 185 jum 0.458 0.288	0.053 0.826 2.87 7.9 33.0 15.0 670. 6 p05(m jul 0.286 0.095 0.850 2.82 12.7 32.0 12.8 601. 0.437 0.270	0.063 0.676 5.13 14.0 31.5 13.1 576. m)= 25.4 aug 0.360 0.107 0.706 5.05 3.8 30.8 11.5 539. mm)= 55.9 aug 0.357 0.202	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep 0.353 0.099 0.836 3.71 4.6 25.0 6.4 431. tp6(mm)= sep 0.455 0.214	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct 0.370 0.110 0.884 4.19 13.7 17.7 1.3 285. = 106.7 oct 0.456 0.193	0.213 0.998 3.53 228.6 9.1 -1.8 182. nov 0.450 0.194 0.987 2.82 3.0 7.4 -4.2 175. nov 0.460 0.236	0.271 0.883 3.25 127.0 4.1 -3.9 124. dec 0.548 0.259 0.992 2.29 1.8 2.4 -7.5 130. dec 0.483 0.274
betg(m) ri(m) ri(m) tamx(m) tamx(m) ra(m) IDAHO - POC/ month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) ILLINOIS - ( month prw2(m) prw1(m) alfg(m)	0.846 3.76 2.3 2.3 -5.5 138. ATELLO jan 0.511 0.289 0.949 2.46 2.0 -0.2 -10.6 162. CHICAGO jan 0.291 0.430	0.920 2.92 7.1 5.8 -3.1 236. alat(deg feb 0.253 0.998 2.03 3.0 2.5 -7.9 239. alat(de feb 0.430 0.285 0.782	0.998 2.57 4.6 10.8 -0.1 342. )= 42.92 mar 0.479 0.230 0.998 2.08 2.8 7.8 -3.6 354. g)= 41.98 mar 0.485 0.485 0.330 0.705	0.841 4.57 4.8 17.4 3.0 485. yrs= 21. apr 0.380 0.213 0.998 3.68 3.0 15.4 0.7 461. yrs= 26. apr 0.559 0.332 0.733	0.740 5.36 5.3 22.2 6.9 585. elev may 0.508 0.194 0.794 4.24 3.6 20.7 4.9 551. elev may 0.441 0.293 0.783	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357.i jun 0.509 0.169 0.824 4.70 7.9 25.4 8.7 591. (m)= 185 jun 0.458 0.288 0.692	0.053 0.826 2.87 7.9 33.0 15.0 670. 6 tp05(m jul 0.286 0.095 0.850 2.82 12.7 32.0 12.8 601. .0 tp05(m jul 0.286 0.095 0.850 2.82 12.7 32.0 12.8 601. 0.437 0.270 0.602	0.063 0.676 5.13 14.0 31.5 13.1 576. m)= 25.4 aug 0.360 0.107 0.706 5.05 3.8 30.8 11.5 539. mm)= 55.9 aug 0.365 0.107 0.706 5.05 3.8 30.8 11.5 539.	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep 0.353 0.099 0.836 3.71 4.6 25.0 6.4 431. tp6(mm): sep 0.455 0.214 0.718	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct 0.370 0.110 0.884 4.19 13.7 17.7 1.3 285.= 106.7 oct 0.456 0.193 0.640	0.213 0.998 3.53 228.6 9.1 -1.8 182. nov 0.450 0.194 0.987 2.82 3.0 7.4 -4.2 175. nov 0.460 0.236 0.735	0.271 0.883 3.25 127.0 4.1 -3.9 124. dec 0.548 0.259 0.992 2.29 1.8 2.4 -7.5 130. dec 0.483 0.274
betg(m) ri(m) ri(m) tamx(m) tamn(m) ra(m) IDAHO - POC/ month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) ILLINOIS - ( month prw2(m) prw1(m) alfg(m) betg(m)	0.846 3.76 2.3 2.3 -5.5 138. ATELLO jan 0.511 0.289 0.949 2.46 2.0 -0.2 -10.6 162. CHICAGO jan 0.291 0.291 0.681 6.38	0.920 2.92 7.1 5.8 -3.1 236. alat(deg feb 0.524 0.253 0.998 2.03 3.0 2.5 -7.9 239. alat(de feb 0.430 0.285 0.782 5.23	0.998 2.57 4.6 10.8 -0.1 342. )= 42.92 mar 0.479 0.230 0.998 2.08 2.8 7.8 -3.6 354. g)= 41.98 mar 0.479 0.705 7.54	0.841 4.57 4.8 17.4 3.0 485. yrs= 21. apr 0.380 0.213 0.998 3.68 3.0 15.4 0.7 461. yrs= 26. apr 0.559 0.332 0.733 10.77	0.740 5.36 5.3 22.2 6.9 585. elev may 0.508 0.194 0.794 4.24 3.6 20.7 4.9 551. elev may 0.510. 0.794 4.24 3.6 20.7 4.9 551. 9.0 7.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357.i jun 0.509 0.169 0.824 4.70 7.9 25.4 8.7 7.9 25.4 8.7 (m)= 185 jun 0.458 0.288 0.692 13.92	0.053 0.826 2.87 7.9 33.0 15.0 670. 6 tp05(m jul 0.286 0.095 0.850 2.82 12.7 32.0 12.8 601. .0 tp05(jul 0.437 0.270 0.602 18.67	0.063 0.676 5.13 14.0 31.5 13.1 576. m)= 25.4 aug 0.360 0.107 0.706 5.05 3.8 30.8 11.5 539. mm)= 55.9 aug 0.357 0.202 0.689 16.56	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep 0.353 0.099 0.836 3.71 4.6 25.0 6.4 431. tp6(mm)= sep 0.455 0.214 0.718 12.70	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct 0.370 0.110 0.884 4.19 13.7 17.7 1.3 285. = 106.7 oct 0.456 0.193 0.640 13.64	0.213 0.998 3.53 228.6 9.1 -1.8 182. nov 0.450 0.194 0.987 2.82 3.0 7.4 -4.2 175. nov 0.460 0.236 0.735 8.25	0.271 0.883 3.25 127.0 4.1 -3.9 124. dec 0.548 0.259 0.992 2.29 1.8 2.4 -7.5 130. dec 0.483 0.274 0.666 7.11
betg(m) ri(m) ri(m) tamx(m) tamn(m) ra(m) IDAHO - POC/ month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) ILLINOIS - ( month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	0.846 3.76 2.3 2.3 -5.5 138. ATELLO jan 0.511 0.289 0.949 2.46 2.0 -0.2 -10.6 162. CHICAGO jan 0.430 0.291 0.681 6.38 13.0	0.920 2.92 7.1 5.8 -3.1 236. alat(deg feb 0.524 0.253 0.998 2.03 3.0 2.5 -7.9 239. alat(de feb 0.430 0.285 0.782 5.23 6.3	0.998 2.57 4.6 10.8 -0.1 342. )= 42.92 mar 0.479 0.230 0.998 2.08 2.8 7.8 -3.6 354. g)= 41.98 mar 0.485 0.330 0.705 7.54 14.5	0.841 4.57 4.8 17.4 3.0 485. yrs = 21. apr 0.380 0.213 0.998 3.68 3.0 15.4 0.7 461. yrs = 26. apr 0.559 0.332 0.733 10.77 45.2	0.740 5.36 5.3 22.2 6.9 585. elev may 0.508 0.194 0.794 4.24 3.6 20.7 4.9 551. elev may 0.441 0.293 0.783 9.07 15.7	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357. jum 0.509 0.169 0.824 4.70 7.9 25.4 8.7 591. / (m)= 185 jum 0.458 0.458 0.288 0.692 13.92 57.1	0.053 0.826 2.87 7.9 33.0 15.0 670. tp05(m jul 0.286 0.095 0.850 2.82 12.7 32.0 12.8 601. 0 tp05(jul 0.437 0.270 0.602 18.67 56.1	0.063 0.676 5.13 14.0 31.5 13.1 576. m)= 25.4 aug 0.360 0.107 0.706 5.05 3.8 30.8 11.5 539. mm)= 55.9 aug 0.357 0.202 0.689 16.56 36.1	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep 0.353 0.099 0.836 3.71 4.6 25.0 6.4 431. tp6(mm)= sep 0.455 0.214 0.718 12.70 28.7	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct 0.370 0.110 0.884 4.19 13.7 17.7 1.3 285. = 106.7 oct 0.456 0.193 0.640 13.64	0.213 0.998 3.53 228.6 9.1 -1.8 182. nov 0.450 0.194 0.987 2.82 3.0 7.4 -4.2 175. nov 0.460 0.236 0.735 8.25 5.8	0.271 0.883 3.25 127.0 4.1 -3.9 124. dec 0.548 0.259 0.992 2.29 1.8 2.4 -7.5 130. dec 0.483 0.274 0.666 7.11 6.3
betg(m) ri(m) ri(m) tamx(m) tamn(m) ra(m) IDAHO - POC/ month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) ILLINOIS - ( month prw2(m) prw1(m) alfg(m) betg(m)	0.846 3.76 2.3 2.3 -5.5 138. ATELLO jan 0.511 0.289 0.949 2.46 2.0 -0.2 -10.6 162. CHICAGO jan 0.291 0.291 0.681 6.38	0.920 2.92 7.1 5.8 -3.1 236. alat(deg feb 0.524 0.253 0.998 2.03 3.0 2.5 -7.9 239. alat(de feb 0.430 0.285 0.782 5.23 6.3 1.5	0.998 2.57 4.6 10.8 -0.1 342. )= 42.92 mar 0.479 0.230 0.998 2.08 2.8 7.8 -3.6 354. g)= 41.98 mar 0.479 0.705 7.54	0.841 4.57 4.8 17.4 3.0 485. yrs= 21. apr 0.380 0.213 0.998 3.68 3.0 15.4 0.7 461. yrs= 26. apr 0.559 0.332 0.733 10.77 45.2 14.1	0.740 5.36 5.3 22.2 6.9 585. elev may 0.508 0.194 0.794 4.24 3.6 20.7 4.9 551. elev may 0.510. 0.794 4.24 3.6 20.7 4.9 551. 9.0 7.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357.i jun 0.509 0.169 0.824 4.70 7.9 25.4 8.7 7.9 25.4 8.7 (m)= 185 jun 0.458 0.288 0.692 13.92	0.053 0.826 2.87 7.9 33.0 15.0 670. 6 tp05(m jul 0.286 0.095 0.850 2.82 12.7 32.0 12.8 601. .0 tp05(jul 0.437 0.270 0.602 18.67	0.063 0.676 5.13 14.0 31.5 13.1 576. m)= 25.4 aug 0.360 0.107 0.706 5.05 3.8 30.8 11.5 539. mm)= 55.9 aug 0.357 0.202 0.689 16.56	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep 0.353 0.099 0.836 3.71 4.6 25.0 6.4 431. tp6(mm)= sep 0.455 0.214 0.718 12.70	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct 0.370 0.110 0.884 4.19 13.7 17.7 1.3 285. = 106.7 oct 0.456 0.193 0.640 13.64	0.213 0.998 3.53 228.6 9.1 -1.8 182. nov 0.450 0.194 0.987 2.82 3.0 7.4 -4.2 175. nov 0.460 0.236 0.735 8.25	0.271 0.883 3.25 127.0 4.1 -3.9 124. dec 0.548 0.259 0.992 2.29 1.8 2.4 -7.5 130. dec 0.483 0.274 0.666 7.11
betg(m) ri(m) ri(m) tamx(m) tamx(m) ra(m) IDAHO - POCA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) ILLINOIS - ( month prw2(m) prw1(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) in month prw2(m) prw1(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	0.846 3.76 2.3 2.3 -5.5 138. ATELLO jan 0.511 0.289 0.949 2.46 2.0 -0.2 -10.6 162. CHICAGO jan 0.430 0.291 0.681 6.38 13.0 0.6	0.920 2.92 7.1 5.8 -3.1 236. alat(deg feb 0.524 0.253 0.998 2.03 3.0 2.5 -7.9 239. alat(de feb 0.430 0.285 0.782 5.23 6.3	0.998 2.57 4.6 10.8 -0.1 342. )= 42.92 mar 0.479 0.230 0.998 2.08 7.8 -3.6 354. g)= 41.98 mar 0.485 0.330 0.705 7.54 14.5 6.4	0.841 4.57 4.8 17.4 3.0 485. yrs = 21. apr 0.380 0.213 0.998 3.68 3.0 15.4 0.7 461. yrs = 26. apr 0.559 0.332 0.733 10.77 45.2	0.740 5.36 5.3 22.2 6.9 585. elev may 0.508 0.194 0.794 4.24 3.6 20.7 4.9 551. elev may 0.441 0.293 0.441 0.293 9.07 15.7 20.6	0.150 0.854 4.47 7.4 26.9 10.6 636. (m)=1357. jum 0.509 0.169 0.824 4.70 7.9 25.4 8.7 591. (m)= 185 jum 0.458 0.288 0.288 0.692 13.92 57.1 26.4	0.053 0.826 2.87 7.9 33.0 15.0 670. tp05(m jul 0.286 0.095 0.850 2.82 12.7 32.0 12.8 601. 0 tp05(jul 0.437 0.270 0.602 18.67 56.1 28.9	0.063 0.676 5.13 14.0 31.5 13.1 576. m)= 25.4 aug 0.360 0.107 0.706 5.05 3.8 30.8 11.5 539. mm)= 55.9 aug 0.357 0.202 0.689 16.56 36.1 28.0	0.083 0.801 4.04 3.6 26.0 8.1 460. tp6(mm)= sep 0.353 0.099 0.836 3.71 4.6 25.0 6.4 431. tp6(mm)= sep 0.455 0.214 0.718 12.70 28.7 23.8	0.152 0.998 2.92 4.3 18.5 3.3 301. 49.5 oct 0.370 0.110 0.884 4.19 13.7 17.7 1.3 285. = 106.7 oct 0.456 0.193 0.640 13.64 13.0 17.4	0.213 0.998 3.53 228.6 9.1 -1.8 182. nov 0.450 0.194 0.987 2.82 3.0 7.4 -4.2 175. nov 0.460 0.236 0.735 8.25 5.8 8.4	0.271 0.883 3.25 127.0 4.1 -3.9 124. dec 0.548 0.259 0.992 2.29 1.8 2.4 -7.5 130. dec 0.483 0.274 0.666 7.11 6.3 2.1

INDIANA - E	_		(deg)= 38.				116.7 tp0			m) = 120.7		
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.467	0.457	0.485	0.483	0.493	0.459	0.455	0.393	0.418	0.446	0.440	0.490
prw1(m)	0.242	0.276	0.288	0.336	0.252	0.243	0.263	0.181	0.170 0.629	0.166	0.214	0.260
alfg(m)	0.673	0.725	0.622	0.669	0.697	0.676	0.743	0.654		0.659	0.707	0.648
betg(m)	12.17	11.99	16.13	12.93	15.44	12.90	13.13	15.06	15.34 25.7	12.80	12.88	13.41
ri(m)	7.1	10.7	13.2	19.0	27.7	31.2	39.4	47.0		13.7	29.7	6.3
tamx(m)	6.3	8.1	13.8	19.9	24.7	29.7	31.7	30.6	27.7	21.7	13.1	7.6
tamn(m)	-3.3	-1.9	2.4	7.9	12.5	17.7	19.6	18.6	15.1 425.	8.7	2.4	-2.1
ra(m)	144.	233.	336.	416. 00 yrs=	508.	563. ev (m)=	561.	510. 5(mm)= 53		313. m)= 101.6	197.	152.
INDIANA - F month	jan	feb	(deg)= 41. mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.496	0.463	0.552	0.535	0.502	0.493	0.439	0.393	0.424	0.434	0.461	0.498
prw1(m)	0.326	0.309	0.359	0.389	0.305	0.253	0.297	0.217	0.238	0.202	0.277	0.313
alfg(m)	0.667	0.676	0.743	0.781	0.830	0.838	0.713	0.762	0.758	0.653	0.830	0.668
betg(m)	7.11	7.47	6.99	8.79	9.78	11.05	12.42	11.86	9.12	13.33	7.95	7.09
ri(m)	8.9	6.1	7.6	14.2	15.2	24.6	23.1	32.3	20.1	12.7	6.9	11.7
tamx(m)	0.8	1.9	7.4	14.3	20.9	26.3	29.1	27.8	23.9	17.2	8.4	1.9
tamn(m)	-7.2	-6.3	-2.2	3.2	9.1	14.7	17.0	16.0	12.3	6.3	0.2	-5.4
ra(m)	124.	193.	296.	376.	468.	523.	521.	470.	385.	273.	157.	112.
INDIANA - IN			at(deg)=3			lev (m)=		p05(mm)=5		(ma)=111.		116.
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.466	0.462	0.496	0.543	0.513	0.421	0.406	0.358	0.415	0.428	0.412	0.518
prw1(m)	0.291	0.277	0.344	0.332	0.304	0.266	0.273	0.218	0.192	0.175	0.259	0.291
alfg(m)	0.630	0.692	0.688	0.749	0.845	0.671	0.746	0.753	0.646	0.689	0.733	0.669
betg(m)	9.83	9.19	10.74	10.92	9.91	14.68	14.78	11.10	14.73	12.88	11.71	9.52
ri(m)	11.7	18.5	12.2	18.0	16.5	60.5	35.3	48.8	28.2	16.5	10.7	12.4
tamx(m)	2.8	4.3	9.9	16.6	22.7	28.2	31.1	29.7	26.0	19.6	10.3	3.8
tamn(m)	-6.4	-4.9	-0.9	4.3	9.9	15.6	17.8	16.9	13.1	6.9	0.3	-4.8
	144.	217		396.	488.	E / 7		/ 00	/ OF	207		132.
ra(m)	199.	213.	316.	370.	400.	543.	541.	490.	405.	293.	177.	136.
IOWA - DES			310.	yrs= 27		043. (m)= 285		สงบ.	tp6(mm)=		Iff.	132.
	MOINES jan										nov	dec
IOWA - DES	MOINES	alat(deg feb 0.397	)= 41.53	yrs= 27	. elev	(m)= 285	.9 tp05(m jul 0.367	m)= 67.3	tp6(mm)=	129.5		
IOWA - DES month	MOINES jan	alat(deg feb	g)= 41.53 mar	yrs= 27 apr	. elev may	(m)= 285 jun	.9 tp05(m	m)≃ 67.3 aug	tp6(mm)= sep	129.5 oct	nov	dec
IOWA - DES month prw2(m)	MOINES jan 0.391	alat(deg feb 0.397	mar 0.490	yrs= 27 apr 0.466	. elev may 0.455	(m)= 285 jun 0.489	.9 tp05(m jul 0.367	m)≃ 67.3 aug 0.393	tp6(mm)= sep 0.444	129.5 oct 0.389	nov 0.403	dec 0.384
IOWA - DES month prw2(m) prw1(m)	MOINES jan 0.391 0.205	feb 0.397 0.212 0.821 4.37	0.490 0.255	yrs= 27 apr 0.466 0.317	. elev may 0.455 0.286 0.681 14.53	(m)= 285 jun 0.489 0.295	.9 tp05(m jul 0.367 0.257	aug 0.393 0.252	tp6(mm)= sep 0.444 0.238	0.389 0.183	nov 0.403 0.141	dec 0.384 0.200
IOWA - DES month prw2(m) prw1(m) alfg(m)	MOINES jan 0.391 0.205 0.762	alat(deg feb 0.397 0.212 0.821 4.37 5.6	mar 0.490 0.255 0.698 7.67 10.2	yrs= 27 apr 0.466 0.317 0.713	. elev may 0.455 0.286 0.681 14.53 23.9	(m)= 285 jun 0.489 0.295 0.664	.9 tp05(m jul 0.367 0.257 0.697	m)= 67.3 aug 0.393 0.252 0.693	tp6(mm)= sep 0.444 0.238 0.691	0.389 0.183 0.661	nov 0.403 0.141 0.536	dec 0.384 0.200 0.831
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m)	MOINES jan 0.391 0.205 0.762 3.99 3.8 -1.9	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1	mar 0.490 0.255 0.698 7.67 10.2 6.1	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2	. elev may 0.455 0.286 0.681 14.53 23.9 21.9	(m)= 285 jun 0.489 0.295 0.664 14.40 41.4 27.4	.9 tp05(m jul 0.367 0.257 0.697 13.46	m)= 67.3 aug 0.393 0.252 0.693 14.02	tp6(mm)= sep 0.444 0.238 0.691 12.67	0.389 0.183 0.661 10.39	nov 0.403 0.141 0.536 11.91	dec 0.384 0.200 0.831 3.78
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	MOINES jan 0.391 0.205 0.762 3.99 3.8 -1.9 -11.5	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7	0.490 0.255 0.698 7.67 10.2 6.1	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9	(m)= 285 jun 0.489 0.295 0.664 14.40 41.4	.9 tp05(m jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4	an)= 67.3 aug 0.393 0.252 0.693 14.02 41.7	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9	nov 0.403 0.141 0.536 11.91 8.1	dec 0.384 0.200 0.831 3.78 5.8
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m)	MOINES jan 0.391 0.205 0.762 3.99 3.8 -1.9 -11.5 176.	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255.	0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328.	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405.	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482.	(m)= 285 jun 0.489 0.295 0.664 14.40 41.4 27.4 15.9 542.	.9 tp05(m jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538.	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462.	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369.	0.389 0.183 0.661 10.39 15.5 18.7 5.9 276.	nov 0.403 0.141 0.536 11.91 8.1 8.1	dec 0.384 0.200 0.831 3.78 5.8 0.8
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) IOWA - DUBU	MOINES jan 0.391 0.205 0.762 3.99 3.8 -1.9 -11.5 176.	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)=	0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328.	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405. s= 16.	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m)	(m)= 285 jun 0.489 0.295 0.664 14.40 41.4 27.4 15.9 542. = 321.9	.9 tp05(m jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)=	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369. %(mm)= 11	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276.	nov 0.403 0.141 0.536 11.91 8.1 8.1 -2.4 189.	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145.
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) IOWA - DUBU month	MOINES jan 0.391 0.205 0.762 3.99 3.8 -1.9 -11.5 176. QUE al	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb	0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr:	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405. s= 16. apr	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m)	(m)= 285 jun 0.489 0.295 0.664 14.40 41.4 27.4 15.9 542. = 321.9 jun	.9 tp05(m jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)=	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369. 6(mm)= 11     sep	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct	nov 0.403 0.141 0.536 11.91 8.1 8.1 -2.4 189.	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145.
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) IOWA - DUBU month prw2(m)	MOINES	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb 0.396	0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr: mar 0.483	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405. s= 16. apr 0.472	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m) may 0.478	(m)= 285 jun 0.489 0.295 0.664 14.40 41.4 27.4 15.9 542. = 321.9 jun 0.475	.9 tp05(m jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)= jul 0.405	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369.     6(mm)= 11     sep     0.422	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct 0.475	nov 0.403 0.141 0.536 11.91 8.1 8.1 -2.4 189. nov 0.391	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145. dec 0.444
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) IOWA - DUBU month prw2(m) prw1(m)	MOINES	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb 0.396 0.212	0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr: mar 0.483 0.269	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405. s= 16. apr 0.472 0.326	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m) may 0.478 0.301	(m)= 285 jun 0.489 0.295 0.664 14.40 41.4 27.4 15.9 542. = 321.9 jun 0.475 0.286	.9 tp05(m jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)= jul 0.405 0.298	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp aug 0.395 0.219	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369.     6(mm)= 11     sep     0.422     0.237	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct 0.475 0.184	nov 0.403 0.141 0.536 11.91 8.1 8.1 -2.4 189. nov 0.391 0.173	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145. dec 0.444 0.248
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) fam(m) fowA - DUBL month prw2(m) prw1(m) alfg(m)	MOINES	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb 0.396 0.212 0.804	0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr mar 0.483 0.269 0.814	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405. s= 16. apr 0.472 0.326 0.802	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m) may 0.478 0.301 0.733	(m)= 285 jun 0.489 0.295 0.664 14.40 41.4 27.4 15.9 542. = 321.9 jun 0.475 0.286 0.752	.9 tp05(m jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)= jul 0.405 0.298 0.673	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp aug 0.395 0.219 0.752	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369.     x6(mm)= 11     sep     0.422     0.237     0.644	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct 0.475 0.184 0.746	nov 0.403 0.141 0.536 11.91 8.1 -2.4 189. nov 0.391 0.173 0.595	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145. dec 0.444 0.248 0.744
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) IOWA - DUBU month prw2(m) prw1(m) alfg(m) betg(m)	MOINES	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb 0.396 0.212 0.804 5.11	3)= 41.53 mar 0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr: mar 0.483 0.269 0.814 8.74	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405. s= 16. apr 0.472 0.326 0.802 12.29	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m): may 0.478 0.301 0.733 14.17	(m)= 285 jun 0.489 0.295 0.664 14.40 41.4 27.4 15.9 542. = 321.9 jun 0.475 0.286 0.752 14.33	.9 tp05(mm jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)= jul 0.405 0.298 0.673 17.12	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp aug 0.395 0.219 0.752 17.27	tp6(mm)= sep 0.444 0.238 0.691 12.67 21.8 24.9 12.1 369. 6(mm)= 11 sep 0.422 0.237 0.644 20.19	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct 0.475 0.184 0.746 13.41	nov 0.403 0.141 0.536 11.91 8.1 8.1 -2.4 189. nov 0.391 0.173 0.595 16.08	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145. dec 0.444 0.248 0.744 6.76
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) IOWA - DUBL month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	MOINES	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb 0.396 0.212 0.804 5.11 6.6	0)= 41.53 mar 0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr mar 0.483 0.269 0.814 8.74 9.7	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405. s= 16. apr 0.472 0.326 0.802 12.29 26.2	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m): may 0.478 0.301 0.733 14.17 29.7	(m)= 285 jun 0.489 0.295 0.664 14.40 41.4 27.4 15.9 542. = 321.9 jun 0.475 0.752 14.33 23.6	.9 tp05(mm)jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)= jul 0.405 0.298 0.673 17.12 32.0	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp aug 0.395 0.219 0.752 17.27 35.8	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369.     x6(mm)= 11     sep     0.422     0.237     0.644     20.19     17.5	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct 0.475 0.184 0.746 13.41 9.1	nov 0.403 0.141 0.536 11.91 8.1 -2.4 189. nov 0.391 0.173 0.595 16.08	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145. dec 0.444 0.248 0.744 6.76 5.6
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) IOWA - DUBL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	MOINES	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb 0.396 0.212 0.804 5.11 6.6 -1.0	9)= 41.53 mar 0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr mar 0.483 0.269 0.814 8.74 9.7 4.8	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405. s= 16. apr 0.472 0.326 0.802 12.29 26.2 13.9	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m) may 0.478 0.301 0.733 14.17 29.7 20.4	(m)= 285 jun 0.489 0.295 0.664 14.4 27.4 15.9 542. = 321.9 jun 0.475 0.286 0.752 14.33 23.6 25.7	.9 tp05(mm jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)= jul 0.405 0.298 0.673 17.12 32.0 28.7	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp aug 0.395 0.219 0.752 17.27 35.8 27.4	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369.     6(mm)= 11     sep     0.422     0.237     0.644     20.19     17.5     22.6	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct 0.475 0.184 0.746 13.41 9.1 16.3	nov 0.403 0.141 0.536 11.91 8.1 8.1 -2.4 189. nov 0.391 0.173 0.595 16.08 13.5 6.2	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145. dec 0.444 0.248 0.744 6.76 5.6 -0.6
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) IOWA - DUBU month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	MOINES	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb 0.396 0.212 0.804 5.11 6.6 -1.0	9)= 41.53 mar 0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr mar 0.483 0.269 0.814 8.74 9.7 4.8	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405. s= 16. apr 0.472 0.326 0.802 12.29 26.2 13.9 2.4	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m) may 0.478 0.301 0.733 14.17 29.7 20.4 8.6	(m)= 285 jun 0.489 0.295 0.664 14.40 27.4 15.9 542. = 321.9 jun 0.475 0.286 0.752 14.33 23.6 25.7 14.1	.9 tp05(mm jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)= jul 0.405 0.298 0.673 17.12 32.0 28.7 16.4	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp aug 0.395 0.219 0.752 17.27 35.8 27.4 15.3	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369. %6(mm)= 11     sep     0.422     0.237     0.644     20.19     17.5     22.6     10.4	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct 0.475 0.184 0.746 13.41 9.1 16.3 4.4	nov 0.403 0.141 0.536 11.91 8.1 8.1 -2.4 189. nov 0.391 0.173 0.595 16.08 13.5 6.2 -3.2	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145. dec 0.444 0.248 0.744 6.76 5.6 -0.6 -8.9
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) IOWA - DUBL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m)	MOINES	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb 0.396 0.212 0.804 5.11 6.6 -1.0 -10.1 253.	9)= 41.53 mar 0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr mar 0.483 0.269 0.814 8.74 9.7 4.8 -4.9 326.	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405. s= 16. apr 0.472 0.326 0.802 12.29 26.2 13.9 2.4 403.	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m) may 0.478 0.301 0.733 14.17 29.7 20.4 8.6 480.	(m)= 285 jun 0.489 0.295 0.664 14.40 41.4 27.4 15.9 542. = 321.9 jun 0.475 0.286 0.752 14.33 23.6 25.7 14.1 541.	.9 tp05(mm jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)= jul 0.405 0.298 0.673 17.12 32.0 28.7 16.4 436.	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp aug 0.395 0.219 0.752 17.27 35.8 27.4 15.3 460.	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369.     6(mm)= 11     sep     0.422     0.237     0.644     20.19     17.5     22.6     10.4     367.	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct 0.475 0.184 0.746 13.41 9.1 16.3 4.4 274.	nov 0.403 0.141 0.536 11.91 8.1 8.1 -2.4 189. nov 0.391 0.173 0.595 16.08 13.5 6.2	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145. dec 0.444 0.248 0.744 6.76 5.6 -0.6
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) IOWA - DUBU month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m)	MOINES	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb 0.396 0.212 0.804 5.11 6.6 -1.0 -10.1 253. alat(deg)=	3)= 41.53 mar 0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr mar 0.483 0.269 0.814 8.74 9.7 4.8 -4.9 326. deg)= 37.7	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405. s= 16. apr 0.472 0.326 0.802 12.29 26.2 13.9 2.4 403. 7 yrs=	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m) may 0.478 0.301 0.733 14.17 29.7 20.4 8.6 480.	(m)= 285 jun 0.489 0.295 0.664 14.40 41.4 27.4 15.9 542. = 321.9 jun 0.475 0.286 0.752 14.33 23.6 25.7 14.1 541.	.9 tp05(m jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)= jul 0.405 0.298 0.673 17.12 32.0 28.7 16.4 436. 90.7 tp05	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp aug 0.395 0.219 0.752 17.27 35.8 27.4 15.3 460. (mm)= 74.	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369.     6(mm)= 11     sep     0.422     0.237     0.644     20.19     17.5     22.6     10.4     367.     9 tp6(mm)=	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct 0.475 0.184 0.746 13.41 9.1 16.3 4.4 274.	nov 0.403 0.141 0.536 11.91 8.1 8.1 -2.4 189. nov 0.391 0.173 0.595 16.08 13.5 6.2 -3.2 187.	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145. dec 0.444 0.248 0.744 6.76 5.6 -0.6 -8.9 143.
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) IOWA - DUBU month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) tamx(m) ra(m) KANSAS - DO month	MOINES	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb 0.396 0.212 0.804 5.11 6.6 -1.0 -10.1 253. alat(deg)=	9)= 41.53 mar 0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr: mar 0.483 0.269 0.814 8.74 9.7 4.8 -4.9 326. deg)= 37.7 mar	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405. s= 16. apr 0.472 0.326 0.802 12.29 26.2 13.9 2.4 403. 7 yrs= apr	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m) may 0.478 0.301 0.733 14.17 29.7 20.4 8.6 480.	(m)= 285 jun 0.489 0.295 0.664 14.40 41.4 27.4 15.9 542. = 321.9 jun 0.475 0.286 0.752 14.33 23.6 25.7 14.1 541. v (m)= 7	.9 tp05(m jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)= jul 0.405 0.298 0.673 17.12 32.0 28.7 16.4 436. 90.7 tp05 jul	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp aug 0.395 0.219 0.752 17.27 35.8 27.4 15.3 460. (mm)= 74. aug	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369.     6(mm)= 11     sep     0.422     0.237     0.644     20.19     17.5     22.6     10.4     367.     1p6(mm)     sep	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct 0.475 0.184 0.746 13.41 9.1 16.3 4.4 274. 1)= 127.0 oct	nov 0.403 0.141 0.536 11.91 8.1 8.1 -2.4 189. nov 0.391 0.173 0.595 16.08 13.5 6.2 -3.2 187.	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145. dec 0.444 0.248 0.744 6.76 -0.6 -8.9 143.
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) IOWA - DUBL month prw2(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) month prw2(m)	MOINES	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb 0.396 0.212 0.804 5.11 6.6 -1.0 -10.1 253. alat(deg)= feb 0.305	3)= 41.53 mar 0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr mar 0.483 0.269 0.814 8.74 9.7 4.8 -4.9 326. deg)= 37.7 mar 0.397	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405. s= 16. apr 0.472 0.326 0.802 12.29 26.2 13.9 2.4 403. 7 yrs= apr 0.402	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m) may 0.478 0.301 0.733 14.17 29.7 20.4 8.6 480. 15. ele may 0.484	(m)= 285 jun 0.489 0.295 0.664 14.40 41.4 27.4 15.9 542. = 321.9 jun 0.475 0.286 0.752 14.33 23.6 25.7 14.1 (m)= 7 jun 0.492	.9 tp05(mm jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)= jul 0.405 0.298 0.673 17.12 32.0 28.7 16.4 436. 90.7 tp05 jul 0.421	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp aug 0.395 0.219 0.752 17.27 35.8 27.4 15.3 460. (mm)= 74. aug 0.441	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369.     6(mm)= 11     sep     0.422     0.237     0.644     20.19     17.5     22.6     10.4     367.     tp6(mm)     sep     0.442	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct 0.475 0.184 0.746 13.41 9.1 16.3 4.4 274. 1)= 127.0 oct 0.425	nov 0.403 0.141 0.536 11.91 8.1 8.1 -2.4 189. nov 0.391 0.173 0.595 16.08 13.5 6.2 -3.2 187.	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145. dec 0.444 0.248 0.744 6.76 5.6 -0.6 -8.9 143. dec 0.384
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) IOWA - DUBL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) ca(m) KANSAS - DO month prw2(m) prw1(m)	MOINES	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb 0.396 0.212 0.804 5.11 6.6 -1.0 -10.1 253. alat(deg)= feb 0.305 0.305	3)= 41.53 mar 0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr mar 0.483 0.269 0.814 8.74 9.7 4.8 -4.9 326. deg)= 37.7 mar 0.397 0.150	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405. s= 16. apr 0.472 0.326 0.802 12.29 26.2 13.9 2.4 403. 7 yrs= apr 0.402 0.157	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m) may 0.478 0.301 0.733 14.17 29.7 20.4 8.6 480. 15. ele may 0.484 0.233	(m)= 285 jun 0.489 0.295 0.664 14.40 41.4 27.4 15.9 542. = 321.9 jun 0.475 0.286 0.752 14.33 23.6 25.7 14.1 541. v (m)= 7 jun 0.492 0.213	.9 tp05(mm jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)= jul 0.405 0.298 0.673 17.12 32.0 28.7 16.4 436. 90.7 tp05 jul 0.421 0.247	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp aug 0.395 0.219 0.752 17.27 35.8 27.4 15.3 460. (mm)= 74. aug 0.441 0.209	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369.     36(mm)= 11     sep     0.422     0.237     0.644     20.19     17.5     22.6     10.4     367.     9 tp6(mm)     sep     0.442     0.144	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct 0.475 0.184 0.746 13.41 9.1 16.3 4.4 274. 11 = 127.0 oct 0.425 0.096	nov 0.403 0.141 0.536 11.91 8.1 8.1 -2.4 189. nov 0.391 0.173 0.595 16.08 13.5 6.2 -3.2 187.	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145. dec 0.444 0.744 6.76 -0.6 -8.9 143. dec 0.384 0.103
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamx(m) tamn(m) ra(m) IOWA - DUBL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) prw4(m) prw2(m) prw1(m) alfg(m) calfg(m) calfg(m) calfg(m) prw2(m) prw1(m) alfg(m)	MOINES	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb 0.396 0.212 0.804 5.11 6.6 -1.0 -10.1 253. alat(deg)= feb 0.395 0.395 0.395 0.395	3)= 41.53 mar 0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr mar 0.483 0.269 0.814 8.74 9.7 4.8 -4.9 326. deg)= 37.7 mar 0.397 0.150 0.660	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405. s= 16. apr 0.472 0.326 0.802 12.29 26.2 13.9 2.4 403. 7 yrs= apr 0.402 0.157 0.733	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m) may 0.478 0.301 0.733 14.17 29.7 20.4 8.6 480. 15. ele may 0.484 0.233 0.670	(m)= 285 jun 0.489 0.295 0.664 14.40 41.4 27.4 15.9 542. = 321.9 jun 0.475 0.286 0.752 14.33 23.6 25.7 14.1 541. v (m)= 7 jun 0.492 0.213 0.750	.9 tp05(mm jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)= jul 0.405 0.298 0.673 17.12 32.0 28.7 16.4 436. 90.7 tp05 jul 0.421 0.247 0.709	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp aug 0.395 0.219 0.752 17.27 35.8 27.4 15.3 460. (mm)= 74. aug 0.441 0.209 0.616	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369.     %(mm)= 11     sep     0.422     0.237     0.644     20.19     17.5     22.6     10.4     367.     9 tp6(mm)     sep     0.442     0.144     0.591	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct 0.475 0.184 0.746 13.41 9.1 16.3 4.4 274. 127.0 oct 0.425 0.096 0.592	nov 0.403 0.141 0.536 11.91 8.1 8.1 -2.4 189. nov 0.391 0.173 0.595 16.08 13.5 6.2 -3.2 187.	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145. dec 0.444 0.248 0.744 6.76 5.6 -0.6 -8.9 143. dec 0.384 0.103 0.819
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) IOWA - DUBL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) KANSAS - DO month prw2(m) prw1(m) alfg(m) prw1(m) alfg(m)	MOINES	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb 0.396 0.212 0.804 5.11 6.6 -1.0 -10.1 253. alat(deg)= feb 0.395 0	3)= 41.53 mar 0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr mar 0.483 0.269 0.814 8.74 9.7 4.8 -4.9 326. deg)= 37.7 mar 0.397 0.150 0.660 7.52	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405. s= 16. apr 0.472 0.326 0.802 12.29 26.2 13.9 2.4 403. 7 yrs= apr 0.402 0.157 0.733 7.47	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m) may 0.478 0.301 0.733 14.17 29.7 20.4 8.6 480. 15. ele may 0.484 0.233 0.670 12.70	(m)= 285 jun 0.489 0.295 0.664 14.40 27.4 15.9 542. = 321.9 jun 0.475 0.286 0.752 14.33 23.6 25.7 14.1 541. v (m)= 7 jun 0.492 0.213 0.750 11.51	.9 tp05(mm jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)= jul 0.405 0.298 0.673 17.12 32.0 28.7 16.4 436. 90.7 tp05 jul 0.421 0.421 0.247 0.709 12.32	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp aug 0.395 0.219 0.752 17.27 35.8 27.4 15.3 460. (mm)= 74. aug 0.441 0.209 0.616 11.53	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369. %(mm)= 11     sep     0.422     0.237     0.644     20.19     17.5     22.6     10.4     367. 9    tp6(mm)     sep     0.442     0.144     0.591     13.23	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct 0.475 0.184 0.746 13.41 9.1 16.3 4.4 274. 127.0 oct 0.425 0.096 0.592 12.70	nov 0.403 0.141 0.536 11.91 8.1 8.1 -2.4 189. nov 0.391 0.173 0.595 16.08 13.5 6.2 -3.2 187.	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145. dec 0.444 0.248 0.744 6.76 -0.6 -8.9 143. dec 0.384 0.103 0.819 3.28
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) IOWA - DUBL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) KANSAS - DO month prw2(m) prw1(m) alfg(m) betg(m) ri(m) ra(m)	MOINES	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb 0.396 0.212 0.804 5.11 6.6 -1.0 -10.1 253. alat(deg)= feb 0.305 0.138 0.795 3.51 1.8	3)= 41.53 mar 0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr mar 0.483 0.269 0.814 8.74 9.7 4.8 -4.9 326. deg)= 37.7 mar 0.397 0.150 0.660 7.52 8.1	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405.s= 16. apr 0.472 0.326 0.802 12.29 26.2 13.9 2.4 403.7 yrs= apr 0.402 0.157 0.733 7.47 50.5	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m) may 0.478 0.301 0.733 14.17 29.7 20.4 8.6 480. 15. ele may 0.484 0.233 0.670 12.70 20.3	(m)= 285 jun 0.489 0.295 0.664 14.40 27.4 15.9 542. = 321.9 jun 0.475 0.286 0.752 14.1 541. v (m)= 7 jun 0.492 0.213 0.750 11.51 33.3	.9 tp05(mm jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)= jul 0.405 0.298 0.673 17.12 32.0 28.7 16.4 436. 90.7 tp05 jul 0.421 0.247 0.709 12.32 47.0	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp aug 0.395 0.219 0.752 17.27 35.8 27.4 15.3 460. (mm)= 74. aug 0.441 0.209 0.616 11.53 28.2	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369.     6(mm)= 11     sep     0.422     0.237     0.644     20.19     17.5     22.6     10.4     367.     1p6(mm)     sep     0.442     0.194     13.23     21.6	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct 0.475 0.184 0.746 13.41 9.1 16.3 4.4 274. 19.1 16.3 4.4 274. 0.20	nov 0.403 0.141 0.536 11.91 8.1 8.1 -2.4 189. nov 0.391 0.173 0.595 16.08 13.5 6.2 -3.2 187. nov 0.411 0.074 0.783 4.85 25.1	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145. dec 0.444 0.248 0.744 6.76 5.6 -0.6 -8.9 143. dec 0.384 0.103 0.819 3.28 5.6
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ra(m) tamx(m) tamx(m) tamn(m) ra(m) IOWA - DUBU month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) KANSAS - DO month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m)	MOINES	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb 0.396 0.212 0.804 5.11 6.6 -1.0 -10.1 253. alat(deg)= feb 0.305 0	3)= 41.53 mar 0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr mar 0.483 0.269 0.814 8.74 9.7 4.8 -4.9 326. deg)= 37.7 mar 0.397 0.150 0.660 7.52 8.1	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405. s= 16. apr 0.472 0.326 0.802 12.29 26.2 13.9 2.4 403.7 yrs= apr 0.402 0.157 0.733 7.47 50.5 19.3	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m) may 0.478 0.301 0.733 14.17 29.7 20.4 8.6 480. 15. ele may 0.484 0.233 0.670 12.70 20.3 24.0	(m)= 285 jun 0.489 0.295 0.664 14.40 27.4 15.9 542. = 321.9 jun 0.475 0.286 0.752 14.33 23.6 25.7 14.1 541. v (m)= 7 jun 0.492 0.213 0.750 11.51 33.3 30.1	.9 tp05(mm jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)= jul 0.405 0.298 0.673 17.12 32.0 28.7 16.4 436. 90.7 tp05 jul 0.421 0.247 0.709 12.32 47.0 33.8	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp aug 0.395 0.219 0.752 17.27 35.8 27.4 15.3 460. (mm)= 74. aug 0.441 0.209 0.616 11.53 28.2 32.9	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369.     6(mm)= 11     sep     0.422     0.237     0.644     20.19     17.5     22.6     10.4     367.     1p6(mm)     sep     0.442     0.194     0.591     13.23     21.6     28.1	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct 0.475 0.184 0.746 13.41 9.1 16.3 4.4 274. 1)= 127.0 oct 0.425 0.096 0.592 12.70 14.0 21.4	nov 0.403 0.141 0.536 11.91 8.1 8.1 -2.4 189. nov 0.391 0.173 0.595 16.08 13.5 6.2 -3.2 187. nov 0.411 0.074 0.783 4.85 25.1 12.9	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145. dec 0.444 0.248 0.744 6.76 5.6 -0.6 -8.9 143. dec 0.384 0.103 0.819 3.28 5.6 6.9
IOWA - DES month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) IOWA - DUBL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) KANSAS - DO month prw2(m) prw1(m) alfg(m) betg(m) ri(m) ra(m)	MOINES	alat(deg feb 0.397 0.212 0.821 4.37 5.6 0.1 -9.7 255. at(deg)= feb 0.396 0.212 0.804 5.11 6.6 -1.0 -10.1 253. alat(deg)= feb 0.305 0.138 0.795 3.51 1.8	3)= 41.53 mar 0.490 0.255 0.698 7.67 10.2 6.1 -4.1 328. 42.40 yr mar 0.483 0.269 0.814 8.74 9.7 4.8 -4.9 326. deg)= 37.7 mar 0.397 0.150 0.660 7.52 8.1	yrs= 27 apr 0.466 0.317 0.713 9.40 25.4 15.2 3.3 405.s= 16. apr 0.472 0.326 0.802 12.29 26.2 13.9 2.4 403.7 yrs= apr 0.402 0.157 0.733 7.47 50.5	. elev may 0.455 0.286 0.681 14.53 23.9 21.9 9.9 482. elev (m) may 0.478 0.301 0.733 14.17 29.7 20.4 8.6 480. 15. ele may 0.484 0.233 0.670 12.70 20.3	(m)= 285 jun 0.489 0.295 0.664 14.40 27.4 15.9 542. = 321.9 jun 0.475 0.286 0.752 14.1 541. v (m)= 7 jun 0.492 0.213 0.750 11.51 33.3	.9 tp05(mm jul 0.367 0.257 0.697 13.46 42.9 30.7 18.4 538. tp05(mm)= jul 0.405 0.298 0.673 17.12 32.0 28.7 16.4 436. 90.7 tp05 jul 0.421 0.247 0.709 12.32 47.0	m)= 67.3 aug 0.393 0.252 0.693 14.02 41.7 29.3 17.4 462. 59.7 tp aug 0.395 0.219 0.752 17.27 35.8 27.4 15.3 460. (mm)= 74. aug 0.441 0.209 0.616 11.53 28.2	tp6(mm)=     sep     0.444     0.238     0.691     12.67     21.8     24.9     12.1     369.     6(mm)= 11     sep     0.422     0.237     0.644     20.19     17.5     22.6     10.4     367.     1p6(mm)     sep     0.442     0.194     13.23     21.6	129.5 oct 0.389 0.183 0.661 10.39 15.5 18.7 5.9 276. 5.6 oct 0.475 0.184 0.746 13.41 9.1 16.3 4.4 274. 19.1 16.3 4.4 274. 0.20	nov 0.403 0.141 0.536 11.91 8.1 8.1 -2.4 189. nov 0.391 0.173 0.595 16.08 13.5 6.2 -3.2 187. nov 0.411 0.074 0.783 4.85 25.1	dec 0.384 0.200 0.831 3.78 5.8 0.8 -8.3 145. dec 0.444 0.248 0.744 6.76 5.6 -0.6 -8.9 143. dec 0.384 0.103 0.819 3.28 5.6

KANSAS - T	OPEKA :	alat(deg)=	39.07	yrs= 11.	elev (	m) = 267.3	tp05(mm)	= 62.2	tpó(mm)=	147.3		
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.336	0.301	0.480	0.471	0.460	0.471	0.442	0.381	0.419	0.419	0.388	0.342
prw1(m)	0.151	0.186	0.172	0.243	8.293	0.294	0.228	0.215	0.202	0.147	0.123	0.154
alfg(m)	0.773	0.708	0.748	0.626	0.780	0.720	0.698	0.652	0.755	0.695	0.592	0.894
betg(m)	4.29	5.94	8.71	13.79	11.20	18.80	17.40	17.73	14.00	14.22	11.91	5.89
ri(m)	5.3	6.1	15.5	18.8	42.7	39.4	40.6	29.0	32.0	46.5	17.5	14.2
tamx(m)	3.8	5.6	12.2	18.9	23.9	29.3	32.6	31.8	27.3	21.4	12.3	5.8
tamn(m)	-7.4	-5.1	-0.5	6.0	11.4	17.2	19.8	18.9	13.8	7.3	-0.6	-5.6
ra(m)	192.	264.	345.	433.	527.	551.	531.	526.	410.	292.	227.	156.
KANSAS - W	ICHITA	alat(deg)	= 37.65	yrs= 4.	elev	(m) = 402.6	tp05(mm	)= 80.0	tp6(mm)=	: 149.9		
month	jan	feb	mar	apr	RISY	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.500	0.316	0.462	0.419	0.393	0.577	0.433	0.357	0.412	0.231	0.400	0.250
prw1(m)	0.060	0.212	0.194	0.322	0.246	0.188	0.254	0.292	0.123	0.137	0.157	0.111
alfg(m)	0.621	0.734	0.524	0.551	0.690	0.786	0.640	0.989	0.724	0.998	0.609	0.858
betg(m)	6.50	6.50	16.92	12.78	16.26	15.95	16.10	7.72	16.23	10.57	11.71	5.89
ri(m)	7.9	4.6	17.0	16.0	23.9	25.9	27.7	25.4	34.3	21.6	15.0	9.4
tamx(m)	5.2	8.8	13.6	19.4	24.1	30.0	33.5	33.2	28.2	21.6	12.8	7.0
temn(m)	-5.2	-3.1	1.2	7.4	12.5	18.1	20.8	20.0	15.8	9.7	1.7	-3.2
ra(m)	255.	316.	418.	528.	568.	650.	642.	592.	493.	380.	285.	234.
KENTUCKY -		alat(	deg)= 38	.03 yrs=	74. e	lev (m)= 2	298.4 tp0	5(mm)= 5	7.1 tp6	mm)= 107.9	9	
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.496	0.489	0.502	0.520	0.500	0.526	0.430	0.394	0.441	0.400	0.459	0.478
prw1(m)	0.317	0.345	0.356	0.353	0.292	0.273	0.312	0.245	0.176	0.194	0.267	0.321
alfg(m)	0.630	0.751	0.652	0.647	0.680	0.778	0.734	0.631	0.666	0.725	0.708	0.678
betg(m)	11.79	10.06	14.66	12.14	13.59	12.88	14.22	15.32	14.91	9.22	11.73	11.35
ri(m)	10.2	16.5	12.7	14.2	38.1	25.4	36.8	31.2	29.0	14.0	15.0	10.2
tamx(m)	5.9	7.3	12.7	18.6	24.1	28.8	30.8	29.9	26.9	20.6	12.2	6.9
tamn(m)	-3.8	-2.9	1.0	6.3	11.6	16.7	18.7	17.8	14.7	8.1	1.9	-2.6
ra(m)	172.	263.	357.	480.	581.	628.	617.	563.	494.	357.	245.	174.
					85.	elev (m)=	144.5 to	05(mm)=	57.1 to6	(mm) = 107.	9	
KENTUCKY -	LOUISVILLE	alat	(deg)= 3	8.18 yrs=		elev (m)= iພກ		05(mm)≃ aua		(mm)= 107.		
KENTUCKY - month	LOUISVILLE jan	alat feb	(deg)= 3 mar	8.18 yrs= apr	may	jun	jul	aug	sep	oct	nov	dec
KENTUCKY - month prw2(m)	LOUISVILLE jan 0.472	alat feb 0.466	(deg)= 3 mar 0.484	8.18 yrs= apr 0.512	тау 0.547	jun 0.513	jul 0.449	aug 0.379	sep 0.420	oct 0.383	nov 0.439	dec 0.486
KENTUCKY - month prw2(m) prw1(m)	LOUISVILLE jan 0.472 0.301	alat feb 0.466 0.323	(deg)= 3 mar 0.484 0.355	8.18 yrs= apr 0.512 0.331	пау 0.547 0.256	jun 0.513 0.222	jul 0.449 0.297	aug 0.379 0.201	sep 0.420 0.182	oct 0.383 0.188	0.439 0.257	dec 0.486 0.291
KENTUCKY - month prw2(m) prw1(m) alfg(m)	LOUISVILLE jan 0.472 0.301 0.662	feb 0.466 0.323 0.709	(deg)= 30 mar 0.484 0.355 0.645	8.18 yrs= apr 0.512 0.331 0.664	may 0.547 0.256 0.723	jun 0.513 0.222 0.680	jul 0.449 0.297 0.743	0.379 0.201 0.692	sep 0.420 0.182 0.648	oct 0.383 0.188 0.752	0.439 0.257 0.628	dec 0.486 0.291 0.653
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m)	LOUISVILLE jan 0.472 0.301 0.662 11.35	alat feb 0.466 0.323 0.709 11.51	(deg)= 30 mar 0.484 0.355 0.645 14.88	8.18 yrs= apr 0.512 0.331 0.664 12.62	may 0.547 0.256 0.723 12.42	jun 0.513 0.222 0.680 13.94	jul 0.449 0.297 0.743 11.76	0.379 0.201 0.692 14.63	sep 0.420 0.182 0.648 16.87	oct 0.383 0.188 0.752 11.05	0.439 0.257 0.628 13.13	dec 0.486 0.291 0.653 11.91
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	LOUISVILLE jan 0.472 0.301 0.662 11.35 8.1	e alat feb 0.466 0.323 0.709 11.51 14.7	(deg)= 30 mar 0.484 0.355 0.645 14.88 16.8	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2	may 0.547 0.256 0.723 12.42 20.6	jun 0.513 0.222 0.680 13.94 30.7	jul 0.449 0.297 0.743 11.76 41.1	aug 0.379 0.201 0.692 14.63 29.0	sep 0.420 0.182 0.648 16.87 20.1	0.383 0.188 0.752 11.05 33.8	0.439 0.257 0.628 13.13 18.0	dec 0.486 0.291 0.653 11.91 9.1
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	LOUISVILLE jan 0.472 0.301 0.662 11.35 8.1 6.4	alat feb 0.466 0.323 0.709 11.51 14.7 7.9	(deg) = 3 mar 0.484 0.355 0.645 14.88 16.8	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2	may 0.547 0.256 0.723 12.42 20.6 24.8	jun 0.513 0.222 0.680 13.94 30.7 29.6	jul 0.449 0.297 0.743 11.76 41.1 31.7	aug 0.379 0.201 0.692 14.63 29.0 30.8	sep 0.420 0.182 0.648 16.87 20.1 27.7	oct 0.383 0.188 0.752 11.05 33.8 21.4	0.439 0.257 0.628 13.13 18.0	dec 0.486 0.291 0.653 11.91 9.1 7.5
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	LOUISVILLE jan 0.472 0.301 0.662 11.35 8.1 6.4 -3.2	alat feb 0.466 0.323 0.709 11.51 14.7 7.9	(deg) = 3 mar 0.484 0.355 0.645 14.88 16.8 13.3 1.8	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2	jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3	jul 0.449 0.297 0.743 11.76 41.1 31.7	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2	0.439 0.257 0.628 13.13 18.0 12.9	dec 0.486 0.291 0.653 11.91 9.1 7.5
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m)	LOUISVILLE jan 0.472 0.301 0.662 11.35 8.1 6.4 -3.2 168.	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267.	(deg) = 3 mar 0.484 0.355 0.645 14.88 16.8 13.3 1.8 353.	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454.	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585.	jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624.	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613.	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559.	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490.	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353.	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241.	dec 0.486 0.291 0.653 11.91 9.1 7.5
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m)	LOUISVILLE jan 0.472 0.301 0.662 11.35 8.1 6.4 -3.2 168 BATON ROL	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267.	(deg)= 3 mar 0.484 0.355 0.645 14.88 16.8 13.3 1.8 353. at(deg)=	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585.	jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m)	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559.	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490.	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(mm)= 20	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241.	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170.
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) COUISIANA month	LOUISVILLE jan 0.472 0.301 0.662 11.35 8.1 6.4 -3.2 168 BATON ROL jan	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267. JGE ali	(deg)= 3 mar 0.484 0.355 0.645 14.88 16.8 13.3 1.8 353. at(deg)=	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr apr	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. rs= 7. may	jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m)	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm)	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490. = 86.4 t sep	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(mm)= 20 oct	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241.	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) COUISIANA month prw2(m)	LOUISVILLE jan 0.472 0.301 0.662 11.35 8.1 6.4 -3.2 168 BATON ROL jan 0.381	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267. JGE al	(deg)= 3 mar 0.484 0.355 0.645 14.88 16.8 13.3 1.8 353. at(deg)= mar 0.398	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 17.4 7.2 454. 30.53 yr apr 0.376	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. 7. may 0.506	jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m) jun 0.531	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul 0.560	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm) aug 0.452	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490. = 86.4 t sep 0.416	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(nm) = 20 oct 0.376	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241. 05.7 nov 0.305	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec 0.464
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tam(m) pra(m) LOUISIANA month prw2(m) prw1(m)	LOUISVILLE jan 0.472 0.301 0.662 11.35 8.1 6.4 -3.2 168 BATON ROL jan 0.381 0.251	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267. JGE al. feb 0.466 0.267	(deg)= 3 mar 0.484 0.355 0.645 14.88 16.8 13.3 1.8 353. at(deg)= mar 0.398 0.220	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr apr 0.376 0.182	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. 7. may 0.506 0.180	jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m) jun 0.531 0.194	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul 0.560 0.363	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm) aug 0.452 0.279	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490. = 86.4 t sep 0.416 0.219	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(nm) = 20 0ct 0.376 0.121	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241. 05.7 nov 0.305 0.180	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec 0.464 0.255
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) COUISIANA month prw2(m) prw1(m) alfg(m)	LOUISVILLE	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267. UGE al feb 0.466 0.267 0.664	(deg)= 3. mar 0.484 0.3555 0.645 14.88 16.8 13.3 1.8 353. at(deg)= mar 0.398 0.220 0.645	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr apr 0.376 0.182 0.582	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. 7. may 0.506 0.180 0.652	jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. eley (m) jun 0.531 0.194 0.811	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul 0.560 0.363 0.700	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm) aug 0.452 0.279 0.767	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490. = 86.4 t sep 0.416 0.219 0.721	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(nm) = 20 oct 0.376 0.121 0.617	nov 0.439 0.257 0.628 13.13 18.0 12.9 2.3 241. 05.7 nov 0.305 0.180 0.712	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec 0.464 0.255 0.725
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) pra(m) LOUISIANA month prw2(m) prw1(m) alfg(m) betg(m)	LOUISVILLE	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267. UGE el feb 0.466 0.267 0.664 21.13	(deg) = 3. mar 0.484 0.355 0.645 14.88 15.3 1.8 353. at(deg) = mar 0.398 0.220 0.645 18.77	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr apr 0.376 0.182 0.582 33.30	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. 7. may 0.506 0.180 0.652 20.42	Jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m) jun 0.531 0.194 0.811 11.48	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul 0.560 0.363 0.700 18.08	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm) aug 0.452 0.279 0.767 14.43	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490. = 86.4 t sep 0.416 0.219 0.721 14.73	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(mm)= 20 oct 0.376 0.121 0.617 21.23	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241. 05.7 nov 0.305 0.180 0.712 18.85	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec 0.464 0.255 0.725 17.93
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) LOUISIANA month prw2(m) prw1(m) alfg(m) betg(m)	LOUISVILLE	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267. UGE el feb 0.466 0.267 0.664 21.13	(deg) = 3. mar 0.484 0.355 0.645 14.88 15.3 1.8 353. at(deg) = mar 0.398 0.220 0.645 18.77 27.9	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr apr 0.376 0.182 0.582 33.30 44.7	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. 7. may 0.506 0.180 0.652 20.42 47.0	Jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m) jun 0.531 0.194 0.811 11.48 24.1	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul 0.560 0.363 0.700 18.08 46.0	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm) aug 0.452 0.279 0.767 14.43 42.2	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490. = 86.4 t sep 0.416 0.219 0.721 14.73 71.9	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(nm) = 20 oct 0.376 0.121 0.617 21.23 29.2	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241. 05.7 nov 0.305 0.712 18.85 38.4	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec 0.464 0.255 0.725 17.93 27.9
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) COUISIANA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	LOUISVILLE	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267. UGE al. feb 0.466 0.267 0.664 21.13 30.0 18.1	(deg)= 3. mar 0.484 0.355 0.645 14.88 15.3 1.8 353. at(deg)= mar 0.398 0.220 0.645 18.77 27.9 21.0	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr apr 0.376 0.182 0.582 33.30 44.7 24.7	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. 7. may 0.506 0.180 0.652 20.42 47.0 28.2	Jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m) jun 0.531 0.194 0.811 11.48 24.1 31.6	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul 0.560 0.363 0.700 18.08 46.0 32.2	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm) aug 0.452 0.279 0.767 14.43 42.2 32.1	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490. = 86.4 t sep 0.416 0.219 0.721 14.73 71.9 30.6	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(nm) = 20 oct 0.376 0.121 0.617 21.23 29.2 26.9	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241. 05.7 nev 0.305 0.712 18.85 38.4 20.7	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec 0.464 0.255 0.725 17.93 27.9
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamx(m) tamn(m) ra(m) LOUISIANA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	LOUISVILLE jan 0.472 0.301 0.662 11.35 8.1 6.4 -3.2 168 BATON ROL jan 0.381 0.251 0.654 17.37 27.4 16.3 6.3	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267. UGE al. feb 0.466 0.267 0.664 21.13 30.0 18.1	(deg)= 3. mar 0.484 0.355 0.645 14.88 13.3 1.8 353. at (deg)= mar 0.398 0.220 0.645 18.77 27.9 21.0 10.4	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr apr 0.376 0.182 0.582 33.30 44.7 24.7 14.0	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. 7. may 0.506 0.180 0.652 20.42 47.0 28.2 18.6	jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m) jun 0.531 0.194 0.811 11.48 24.1 31.6 21.3	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul 0.560 0.363 0.700 18.08 46.0 32.2 22.3	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm) aug 0.452 0.279 0.767 14.43 42.2 32.1	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490. = 86.4 t sep 0.416 0.219 0.721 14.73 71.9 30.6 19.9	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(mm)= 20 oct 0.376 0.121 0.617 21.23 29.2 26.9 14.9	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241. 05.7 nov 0.305 0.712 18.85 38.4 20.7 9.4	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec 0.464 0.255 0.725 17.93 27.9 17.0 7.0
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) LOUISIANA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m)	LOUISVILLE	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267. UGE all feb 0.466 0.267 0.664 21.13 30.0 18.1 8.1	(deg)= 3 mar 0.484 0.355 0.645 14.88 16.8 13.3 1.8 353. at(deg)= mar 0.398 0.220 0.645 18.77 27.9 21.0 10.4 335.	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr apr 0.376 0.182 0.582 33.30 44.7 24.7 14.0 412.	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. 7. may 0.506 0.180 0.652 20.42 47.0 28.2 18.0 449.	jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m) jun 0.531 0.194 0.811 11.48 24.1 31.6 21.3 443.	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul 0.560 0.363 0.700 18.08 46.0 32.2 22.3 417.	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm) aug 0.452 0.279 0.767 14.43 42.2 32.1 22.1 416.	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490. = 86.4 t sep 0.416 0.219 0.721 14.73 71.9 30.6 19.9 383.	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(mm) = 20 oct 0.376 0.121 0.617 21.23 29.2 26.9 14.9 357.	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241. 05.7 nov 0.305 0.180 0.712 18.85 38.4 20.7 9.4 278.	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec 0.464 0.255 0.725 17.93 27.9
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) LOUISIANA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m)	LOUISVILLE	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267. UGE feb 0.466 0.267 0.664 21.13 30.0 18.1 8.1 259.	(deg)= 3 mar 0.484 0.355 0.645 14.88 16.8 13.3 1.8 353. at(deg)= mar 0.398 0.220 0.645 18.77 27.9 21.0 10.4 335. at(deg)=	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr apr 0.376 0.182 0.582 33.30 44.7 24.7 14.0 412. 29.98 yr	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. 7. may 0.506 0.180 0.652 20.42 47.0 28.2 18.0 449. rs= 87.	jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m) jun 0.531 0.194 0.811 11.48 24.1 31.6 21.3 443. elev (m)	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul 0.560 0.363 0.700 18.08 46.0 32.2 22.3 417. = 2.7	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm) aug 0.452 0.279 0.767 14.43 42.2 32.1 416. tp05(mm)	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490. = 86.4 t sep 0.416 0.219 0.721 14.73 71.9 30.6 19.9 383. = 88.9 t	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(mm) = 20 oct 0.376 0.121 0.617 21.23 29.2 26.9 14.9 357. p6(mm) = 22	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241. 05.7 nov 0.305 0.180 0.712 18.85 38.4 20.7 9.4 278.	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec 0.464 0.255 0.725 17.93 27.9 17.0 7.0 198.
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) ra(m) LOUISIANA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) cam(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m)	LOUISVILLE	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267. JGE feb 0.466 0.267 0.664 21.13 30.0 18.1 8.1 259.	(deg)= 3 mar 0.484 0.355 0.645 14.88 16.8 13.3 1.8 353. at(deg)= mar 0.398 0.220 0.645 18.77 27.9 21.0 10.4 335. at(deg)= mar	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr apr 0.376 0.182 0.582 33.30 44.7 24.7 14.0 412. 29.98 yr apr	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. 7. may 0.506 0.180 0.652 20.42 47.0 28.2 18.6 449. es= 87.	jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m) jun 0.531 0.194 0.811 11.48 24.1 31.6 21.3 443. elev (m)	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul 0.560 0.363 0.700 18.08 46.0 32.2 22.3 417. = 2.7 jul	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm) aug 0.452 0.279 0.767 14.43 42.2 32.1 22.1 416. tp05(mm)	sep 0.420 0.182 0.648 16.87 20.1 27.7 490. = 86.4 t sep 0.416 0.219 0.721 14.73 71.9 30.6 19.9 383. = 88.9 t sep	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(mm) = 20 oct 0.376 0.121 0.617 21.23 29.2 26.9 14.9 357. p6(mm) = 22 oct	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241. 05.7 nov 0.305 0.180 0.712 18.85 38.4 20.7 9.4 278.	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec 0.464 0.255 0.725 17.93 27.9 17.0 7.0 198.
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamm(m) ra(m) LOUISIANA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) na(m)	LOUISVILLE jan 0.472 0.301 0.662 11.35 8.1 6.4 -3.2 168. BATON ROL jan 0.381 0.251 0.654 17.37 27.4 16.3 6.3 214. NEW ORLEA	### Alat feb     0.466	(deg)= 3. mar 0.484 0.355 0.645 14.88 15.3 1.8 353. at(deg)= mar 0.398 0.220 0.645 18.77 27.9 21.0 10.4 355. at(deg)= mar 0.404	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr apr 0.376 0.182 0.582 33.30 44.7 24.7 14.0 412. 29.98 yr apr 0.343	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. 7. may 0.506 0.180 0.652 20.42 47.0 28.2 18.6 449. es= 87. may 0.439	jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m) jun 0.531 0.194 0.811 11.48 24.1 31.6 21.3 443. elev (m)	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul 0.560 0.363 0.700 18.08 46.0 32.2 22.3 417. = 2.7 jul 0.576	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm) aug 0.452 0.279 0.767 14.43 42.2 32.1 416. tp05(mm) aug	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490. = 86.4 t sep 0.416 0.219 0.721 14.73 71.9 30.6 19.9 383. = 88.9 t sep 0.495	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(nm) = 20 0ct 0.376 0.121 0.617 21.23 29.2 26.9 14.9 357. p6(nm) = 22	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241. 05.7 nov 0.305 0.180 0.712 18.85 38.4 20.7 9.4 278.	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec 0.464 0.255 0.725 17.93 27.9 17.0 7.0 198. dec 0.449
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) LOUISIANA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamn(m) prw1(m) prw2(m)	LOUISVILLE	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267. UGE el feb 0.466 0.267 0.664 21.13 30.0 18.1 8.1 259.	(deg)= 3. mar 0.484 0.355 0.645 14.88 15.3 1.8 353. at(deg)= mar 0.398 0.220 0.645 18.77 27.9 21.0 10.4 355. at(deg)= mar 0.404 0.227	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr apr 0.376 0.182 0.582 33.30 44.7 24.7 14.0 412. 29.98 yr apr 0.343 0.197	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. 7. may 0.506 0.180 0.652 20.42 47.0 28.2 18.0 449. rs= 87. may 0.439 0.191	Jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m) jun 0.531 0.194 0.811 11.48 24.1 31.6 21.3 443. elev (m) jun 0.483	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul 0.560 0.363 0.700 18.08 46.0 32.2 22.3 47. = 2.7 jul 0.576 0.368	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm) aug 0.452 0.279 0.767 14.43 42.2 32.1 22.1 416. tp05(mm) aug	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490. = 86.4 t sep 0.416 0.219 0.721 14.73 71.9 30.6 19.9 383. = 88.9 t sep 0.495 0.237	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(mm)= 20 0ct 0.376 0.121 0.617 21.23 29.2 26.9 14.9 357. p6(mm)= 22 0ct 0.433 0.130	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241. 05.7 nov 0.305 0.180 0.712 18.85 38.4 20.7 9.4 278.	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec 0.464 0.255 0.725 17.93 27.9 17.0 7.0 198. dec 0.449
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) LOUISIANA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) prw1(m) alfg(m) betg(m) ri(m) alfg(m)	LOUISVILLE	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267. UGE eb 0.466 0.267 0.664 21.13 30.0 18.1 8.1 259.	(deg)= 3. mar 0.484 0.355 0.645 14.88 15.3 1.8 353. at(deg)= mar 0.398 0.220 0.645 18.77 27.9 21.0 10.4 335. at(deg)= mar 0.404 0.227 0.570	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr apr 0.376 0.182 0.582 33.30 44.7 24.7 14.0 412. 29.98 yr apr 0.343 0.197 0.604	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. 7. may 0.506 0.180 0.652 20.42 47.0 28.2 18.6 449. rs= 87. may 0.439 0.191 0.660	Jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m) jun 0.531 0.194 0.811 11.48 24.1 31.6 21.3 443. elev (m) jun 0.483 0.258 0.691	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul 0.560 0.363 0.700 18.08 46.0 32.2 22.3 417. = 2.7 jul 0.576 0.368 0.705	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm) aug 0.452 0.279 0.767 14.43 42.2 32.1 22.1 416. tp05(mm) aug 0.536 0.329 0.642	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490. = 86.4 t sep 0.416 0.219 0.721 14.73 71.9 30.6 19.9 383. = 88.9 t sep 0.495 0.237 0.646	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(mm)= 20 oct 0.376 0.121 0.617 21.23 29.2 26.9 14.9 357. p6(mm)= 22 oct 0.433 0.130 0.694	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241. 05.7 nev 0.305 0.712 18.85 38.4 20.7 9.4 278. 248. nev 0.369 0.168 0.593	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec 0.464 0.255 0.725 17.93 27.9 17.0 7.0 198. dec 0.449 0.274
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) LOUISIANA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) LOUISIANA month prw2(m) prw1(m) alfg(m) betg(m) ra(m) betg(m)	LOUISVILLE	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267. UGE al. feb 0.466 0.267 0.664 21.13 30.0 18.1 8.1 259. ANS feb 0.458 0.279 0.615 22.94	(deg) = 3. mar   0.484   0.355   0.645   16.8   13.3   1.8   353.   at (deg) = mar   0.398   0.220   0.645   18.77   27.9   21.0   10.4   335.   at (deg) = mar   0.404   0.227   0.570   22.12	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr apr 0.376 0.182 0.582 33.30 44.7 24.7 14.0 412. 29.98 yr apr 0.343 0.197 0.604 23.75	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. 7. may 0.506 0.180 0.652 20.42 47.0 28.2 18.6 449. rs= 87. may 0.439 0.439 0.439 0.660 22.10	jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m) jun 0.531 0.194 0.811 11.48 24.1 31.6 21.3 443. elev (m) jun 0.483 0.258 0.691 16.28	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul 0.560 0.363 0.700 18.08 46.0 32.2 22.3 417. 2.7 jul 0.576 0.368 0.705 17.37	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm) aug 0.452 0.279 0.767 14.43 42.2 32.1 416. tp05(mm) aug 0.536 0.329 0.642 17.02	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490. = 86.4 t sep 0.416 0.219 0.721 14.73 71.9 30.6 19.9 383. = 88.9 t sep 0.495 0.237 0.646 21.49	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(mm)= 20 0ct 0.376 0.121 0.617 21.23 29.2 26.9 14.9 357. p6(mm)= 22 0ct 0.433 0.130 0.694 14.50	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241. 05.7 nev 0.305 0.712 18.85 38.4 20.7 9.4 278. 24.8 nev 0.369 0.168 0.593 20.95	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec 0.464 0.255 0.725 17.93 27.9 17.0 7.0 198. dec 0.449 0.274 0.633 20.40
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamx(m) tamx(m) tamn(m) prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) prw1(m) alfg(m) prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) tamn(m) ra(m) betg(m) prw1(m) alfg(m) betg(m)	LOUISVILLE	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267. UGE feb 0.466 0.267 0.664 21.13 30.0 18.1 8.1 259. ANS feb 0.458 0.279 0.615 22.94 23.9	(deg) = 3. mar   0.484   0.355   0.645   14.88   13.3   1.8   353.   at (deg) = mar   0.398   0.220   0.645   18.77   27.9   21.0   10.4   335.   at (deg) = mar   0.404   0.270   0.570   22.12   25.7	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr apr 0.376 0.182 0.582 33.30 44.7 24.7 14.0 412. 29.98 yr apr 0.343 0.197 0.604 23.75 34.3	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. 7. may 0.506 0.180 0.652 20.42 47.0 28.2 18.0 449. rs= 87. may 0.439 0.439 0.439 0.439 0.439 0.439 0.439 0.439 0.439	jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m) jun 0.531 0.194 0.811 11.48 24.1 31.6 21.3 443. elev (m) jun 0.483 0.258 0.691 16.28 42.4	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul 0.560 0.363 0.700 18.08 46.0 32.2 22.3 417. = 2.7 jul 0.576 0.368 0.705 17.37 62.2	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm) aug 0.452 0.279 0.767 14.43 42.2 32.1 22.1 416. tp05(mm) aug 0.536 0.329 0.642 17.02 56.6	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490. = 86.4 t sep 0.416 0.219 0.721 14.73 71.9 30.6 19.9 383. = 88.9 t sep 0.495 0.237 0.646 21.49 33.3	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(mm)= 20 0ct 0.376 0.121 0.617 21.23 29.2 26.9 14.9 357. p6(mm)= 22 0ct 0.433 0.130 0.694 14.50 41.9	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241. 05.7 nov 0.305 0.180 0.712 18.85 38.4 20.7 9.4 278. 24.8 nov 0.369 0.168 0.593 20.95 68.8	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec 0.464 0.255 0.725 17.93 27.9 17.0 7.0 198. dec 0.449 0.274 0.633 20.40 31.0
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) coulsiana month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) tamn(m) prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) alfg(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	LOUISVILLE	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267. JGE al. feb 0.466 0.267 0.664 21.13 30.0 18.1 8.1 259. ANS feb 0.458 0.279 0.615 22.94 23.9 19.2	(deg)= 3 mar 0.484 0.355 0.645 14.88 16.8 13.3 1.8 353. at (deg)= mar 0.220 0.645 18.77 27.9 21.0 10.4 335. at (deg)= mar 0.240 0.227 0.257 0.227 0.257 0.21.7	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr apr 0.376 0.182 0.582 33.30 44.7 24.7 14.0 412. 29.98 yr apr 0.343 0.197 0.604 23.75 34.3 25.4	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. 7. may 0.506 0.180 0.652 20.42 47.0 28.2 18.0 449. rs= 87. may 0.439 0.439 0.439 0.439 0.439 0.439 0.439	jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m) jun 0.531 0.194 0.811 11.48 24.1 31.6 21.3 443. elev (m) jun 0.483 0.258 0.691 16.28 42.4 31.9	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul 0.560 0.363 0.700 18.08 46.0 32.2 22.3 417. = 2.7 jul 0.576 0.368 0.705 17.37 62.2 32.4	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm) aug 0.452 0.279 0.767 14.43 42.2 32.1 22.1 416. tp05(mm) aug 0.536 0.329 0.642 17.02 56.6 32.5	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490. = 86.4 t sep 0.416 0.219 0.721 14.73 71.9 30.6 19.9 383. = 88.9 t sep 0.495 0.237 0.646 21.49 33.3 30.7	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(mm) = 20 oct 0.376 0.121 0.617 21.23 29.2 26.9 14.9 357. p6(mm) = 22 oct 0.433 0.130 0.694 14.50 41.9 26.7	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241. 05.7 nov 0.305 0.180 0.712 18.85 38.4 20.7 9.4 278. 24.8 nov 0.369 0.168 0.369 0.168 0.593 20.95 68.8 21.2	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec 0.464 0.255 0.725 17.93 27.9 17.0 7.0 198. dec 0.449 0.274 0.633 20.40 31.0
KENTUCKY - month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamx(m) tamx(m) tamn(m) prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) prw1(m) alfg(m) prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) tamn(m) ra(m) betg(m) prw1(m) alfg(m) betg(m)	LOUISVILLE	alat feb 0.466 0.323 0.709 11.51 14.7 7.9 -2.2 267. UGE feb 0.466 0.267 0.664 21.13 30.0 18.1 8.1 259. ANS feb 0.458 0.279 0.615 22.94 23.9	(deg) = 3. mar   0.484   0.355   0.645   14.88   13.3   1.8   353.   at (deg) = mar   0.398   0.220   0.645   18.77   27.9   21.0   10.4   335.   at (deg) = mar   0.404   0.270   0.570   22.12   25.7	8.18 yrs= apr 0.512 0.331 0.664 12.62 15.2 19.4 7.2 454. 30.53 yr apr 0.376 0.182 0.582 33.30 44.7 24.7 14.0 412. 29.98 yr apr 0.343 0.197 0.604 23.75 34.3	may 0.547 0.256 0.723 12.42 20.6 24.8 12.2 585. 7. may 0.506 0.180 0.652 20.42 47.0 28.2 18.0 449. rs= 87. may 0.439 0.439 0.439 0.439 0.439 0.439 0.439 0.439 0.439	jun 0.513 0.222 0.680 13.94 30.7 29.6 17.3 624. elev (m) jun 0.531 0.194 0.811 11.48 24.1 31.6 21.3 443. elev (m) jun 0.483 0.258 0.691 16.28 42.4	jul 0.449 0.297 0.743 11.76 41.1 31.7 19.2 613. = 19.5 jul 0.560 0.363 0.700 18.08 46.0 32.2 22.3 417. = 2.7 jul 0.576 0.368 0.705 17.37 62.2	aug 0.379 0.201 0.692 14.63 29.0 30.8 18.2 559. tp05(mm) aug 0.452 0.279 0.767 14.43 42.2 32.1 22.1 416. tp05(mm) aug 0.536 0.329 0.642 17.02 56.6	sep 0.420 0.182 0.648 16.87 20.1 27.7 14.7 490. = 86.4 t sep 0.416 0.219 0.721 14.73 71.9 30.6 19.9 383. = 88.9 t sep 0.495 0.237 0.646 21.49 33.3	oct 0.383 0.188 0.752 11.05 33.8 21.4 8.2 353. p6(mm)= 20 0ct 0.376 0.121 0.617 21.23 29.2 26.9 14.9 357. p6(mm)= 22 0ct 0.433 0.130 0.694 14.50 41.9	0.439 0.257 0.628 13.13 18.0 12.9 2.3 241. 05.7 nov 0.305 0.180 0.712 18.85 38.4 20.7 9.4 278. 24.8 nov 0.369 0.168 0.593 20.95 68.8	dec 0.486 0.291 0.653 11.91 9.1 7.5 -2.1 170. dec 0.464 0.255 0.725 17.93 27.9 17.0 7.0 198. dec 0.449 0.274 0.633 20.40 31.0

alfg(m) 0.621 0.699 0.729 0.665 0.658 0.578 0.607 0.527 0.663 0	104 4
prw2(m) 0.497 0.434 0.436 0.430 0.488 0.497 0.375 0.375 0.444 0 prw1(m) 0.221 0.237 0.248 0.245 0.186 0.154 0.187 0.163	M)= 181.6
prw1(m) 0.221 0.237 0.248 0.245 0.186 0.154 0.187 0.163 0.16	oct nov dec
alfg(m) 0.621 0.699 0.729 0.665 0.658 0.578 0.607 0.527 0.663 0	0.376 0.429 0.480
bota(s) 45 24 47 77 47.00 0.665 0.668 0.578 0.607 0.527 0.663 (	0.131 0.205 0.222
	0.713 0.652 0.645
	14.81 17.58 17.88
ri(m) 27.9 29.2 31.8 28.7 46.5 36.3 29.2 48.3 45.7	29.0 15.7 24.1
tamx(m) 13.4 15.7 19.8 24.9 28.6 32.8 34.1 34.8 31.7	26.5 18.8 14.7
tamn(m) 4.2 6.2 9.3 14.1 17.8 21.8 23.1 23.1 20.3	14.0 8.1 5.1
Fa(m) 232. 292. 384. 446. 558. 557. 578. 528. 414	354. 254. 205.
maine - Caribou alat(deg) = $46.87$ yrs = $32$ . elev (m) = $190.2$ tp05(mm) = $33.0$ tp6(mm) = $85$	
month jan teb mar apr may jun jul aud sen	oct nov dec
ргыг(m) 0.516 0.518 0.539 0.508 0.531 0.472 0.500 0.508 0.473 0	0.498 0.573 0.527
prwi(m) 0.409 0.368 0.315 0.318 0.332 0.376 0.424 0.367 0.361 0	0.316 0.389 0.379
airg(m) 0.779 0.826 0.756 0.808 0.858 0.782 0.719 0.682 0.609 0	0.676 0.788 0.720
betg(m) 4.88 5.51 5.77 6.71 6.30 8.08 9.78 11.13 12.37 1	10.16 7.72 7.11
r1(m) 7.1 3.8 4.1 6.3 12.2 13.2 22.6 30.5 12.2	6.3 6.3 4.8
tamx(m) -6.8 -5.4 -0.1 7.2 15.9 20.7 23.9 23.0 17.8	11.1 2.7 -4.7
tamn(m) -17.2 -16.3 -10.1 -2.4 3.9 9.2 12.2 11.0 6.6	
ra(m) 133. 231. 364. 400. 476. 470. 508. 448 334	
MAINE - PORTLAND alat(deg) = 43.65 yrs= 31. elev (m) = 13.1 tn05(mm) = 45.7 tn4(mm) = 110	
month jan feb mar apr may jun jul aug sep	
prw2(m) 0.442 0.422 0.475 0.536 0.473 0.451 0.361 0.364 0.414 0.	
prw1(m) 0.295 0.341 0.281 0.310 0.321 0.310 0.261 0.300 0.377	
alfg(m) 0.765 0.672 0.716 0.717 0.717 0.717	
betg(m) 10.49 13.72 12.45 10.40 0.40 10.77	0.603 0.691 0.670
ri(m) 201 84 86 122 127 740	5.60 15.37 14.38
tamx(m) -0.1 0.8 / 0.44 / 47.0	29.0 12.4 11.2 15.4 8.7 1.8
tamn(m) -11.3 -11.1 -5.6 0.2 5.4 10.6 13.7 12.9 8.4	
ra(m) 152, 235, 352, 409, 514, 539, 541 488 707	3.0 -1.9 -8.7
MARYLAND - BALTIMORE alat(deg)= 39.18 yrs= 17. elev (m)= 44.5 tm35(mm)= 60.8 tm5(mm)=	278. 157. 137.
month ian feb mer and move in the control of the co	
Drw2(m) 0.446 0.411 0.504 0.502 0.477 0.702 0.777	oct nov dec
prw1(m) 0.263 0.264 0.293 0.319 0.277 0.260 0.243 0.247 0.180	.365 0.414 0.407
alfg(m) 0.791 0.791 0.713 0.609 0.707 0.674 0.700	.164 0.251 0.244
heta(m) 9 / 9 10 00 44 77 40 //	.698 0.653 0.737 5.21 13.92 12.47
ri(m) 86 117 217 12 27 07 07 1	
tamx(m) 6.8 7.5 12.0 10.0 2// 2016	
tamn(m) -3.7 -3.4 0.3 5.9 11.6 16.3 19.1 18.3 1/.2	
ra(m) 168. 270. 334. 410. 504. 521. 506. 626. 274.	7.6 1.3 -3.4 277. 198. 164.
MASSACHUSETTS - ROSTON - 01 oct / doct - /2 77	277. 198. 164. )= 119.4
month ian feb mar and the mark	
prw2(m) 0.460 0.476 0.500 0.511 0.461 0.463 0.402 0.401 0.375	oct nov dec
Drw1(m) 0 333 0 350 0 345 0 703 0 747 0 705	.454 0.523 0.456 .229 0.307 0.294
alform) 0.680 0.618 0.662 0.700 0.700	
0.007 0.010 0.002 0.720 0.070 0.880 0.843 0.822 0.842 0.	.607 0.601 0.679
beta(m) 11.58 16.33 16.17 12.07 14.04 40.05 0.582 0.582 0.582 0.582	5.14 16.59 16.26
betg(m) 11.58 14.33 14.17 12.04 11.91 10.85 11.38 16.18 18.01 15	3/ / /
betg(m) 11.58 14.33 14.17 12.04 11.91 10.85 11.38 16.18 18.01 15 ri(m) 7.6 9.7 9.9 10.4 7.6 9.4 22.1 24.6 20.1 2 tamx(m) 2.7 3.0 7.0 13.3 10.7 2.4 22.1 24.6 20.1 2	24.6 6.3 12.7
betg(m) 11.58 14.33 14.17 12.04 11.91 10.85 11.38 16.18 18.01 15 ri(m) 7.6 9.7 9.9 10.4 7.6 9.4 22.1 24.6 20.1 2 tamx(m) 2.7 3.0 7.0 13.2 19.7 24.6 27.7 26.7 23.0 1 tampn(m) -5.0 -6.9 -7.7 // 10.1 15.0 15.0 15.0 15.0 15.0 15.0 15.0	17.1 11.1 4.5
betg(m) 11.58 14.33 14.17 12.04 11.91 10.85 11.38 16.18 18.01 15 ri(m) 7.6 9.7 9.9 10.4 7.6 9.4 22.1 24.6 20.1 2 tamx(m) 2.7 3.0 7.0 13.2 19.7 24.6 27.7 26.7 23.0 1 tamn(m) -5.0 -4.9 -0.7 4.4 10.1 15.1 18.6 17.4 13.9 ra(m) 129. 194. 290. 350. 445 483 484 414 777	17.1 11.1 4.5 8.4 3.2 -3.1
betg(m) 11.58 14.33 14.17 12.04 11.91 10.85 11.38 16.18 18.01 15 ri(m) 7.6 9.7 9.9 10.4 7.6 9.4 22.1 24.6 20.1 2 tamx(m) 2.7 3.0 7.0 13.2 19.7 24.6 27.7 26.7 23.0 1 tamn(m) -5.0 -4.9 -0.7 4.4 10.1 15.1 18.6 17.4 13.9 ra(m) 129. 194. 290. 350. 445. 483. 486. 411. 334. 2	17.1     11.1     4.5       8.4     3.2     -3.1       235     136     115
betg(m) 11.58 14.33 14.17 12.04 11.91 10.85 11.38 16.18 18.01 15 ri(m) 7.6 9.7 9.9 10.4 7.6 9.4 22.1 24.6 20.1 2 tamx(m) 2.7 3.0 7.0 13.2 19.7 24.6 27.7 26.7 23.0 1 tamn(m) -5.0 -4.9 -0.7 4.4 10.1 15.1 18.6 17.4 13.9 ra(m) 129. 194. 290. 350. 445. 483. 486. 411. 334. 2 MASSACHUSETTS - NANTUCKET alat(deg)= 41.25 yrs= 43. elev (m)= 13.1 tp05(mm)= 63.5 tp6(	77.1 11.1 4.5 8.4 3.2 -3.1 235. 136. 115. (市町)= 127.0
betg(m) 11.58 14.33 14.17 12.04 11.91 10.85 11.38 16.18 18.01 15 ri(m) 7.6 9.7 9.9 10.4 7.6 9.4 22.1 24.6 20.1 2 tamx(m) 2.7 3.0 7.0 13.2 19.7 24.6 27.7 26.7 23.0 1 tamn(m) -5.0 -4.9 -0.7 4.4 10.1 15.1 18.6 17.4 13.9 ra(m) 129. 194. 290. 350. 445. 483. 486. 411. 334. 2 MASSACHUSETTS - NANTUCKET alat(deg) = 41.25 yrs = 43. elev (m) = 13.1 tp05(mm) = 63.5 tp6(pre/2(m) 0.498 0.445 0.4	17.1 11.1 4.5 8.4 3.2 -3.1 235. 136. 115. (nm)= 127.0 oct nov dec
betg(m) 11.58 14.33 14.17 12.04 11.91 10.85 11.38 16.18 18.01 15 ri(m) 7.6 9.7 9.9 10.4 7.6 9.4 22.1 24.6 20.1 2 tamx(m) 2.7 3.0 7.0 13.2 19.7 24.6 27.7 26.7 23.0 1 tamn(m) -5.0 -4.9 -0.7 4.4 10.1 15.1 18.6 17.4 13.9 ra(m) 129. 194. 290. 350. 445. 483. 486. 411. 334. 2 MASSACHUSETTS - NANTUCKET alat(deg) 41.25 yrs 43. elev (m) 13.1 tp05(mm) 63.5 tp6(prw2(m) 0.498 0.443 0.445 0.483 0.412 0.355 0.316 0.397 0.461 0.	17.1 11.1 4.5 8.4 3.2 -3.1 235. 136. 115. (mm)= 127.0 oct nov dec .448 0.527 0.500
betg(m) 11.58 14.33 14.17 12.04 11.91 10.85 11.38 16.18 18.01 15 ri(m) 7.6 9.7 9.9 10.4 7.6 9.4 22.1 24.6 20.1 25 tamx(m) 2.7 3.0 7.0 13.2 19.7 24.6 27.7 26.7 23.0 1 tamn(m) -5.0 -4.9 -0.7 4.4 10.1 15.1 18.6 17.4 13.9 ra(m) 129. 194. 290. 350. 445. 483. 486. 411. 334. 2 month jan feb mar apr may jun jul aug sep prw2(m) 0.498 0.443 0.445 0.483 0.412 0.355 0.316 0.397 0.461 0. prw1(m) 0.353 0.369 0.352 0.316 0.281 0.223 0.218 0.255 0.212 0. alfg(m) 0.763 0.697 0.723 0.602	17.1 11.1 4.5 8.4 3.2 -3.1 235. 136. 115. (mm)= 127.0 oct nov dec .448 0.527 0.500 .214 0.319 0.344
betg(m) 11.58 14.33 14.17 12.04 11.91 10.85 11.38 16.18 18.01 15 ri(m) 7.6 9.7 9.9 10.4 7.6 9.4 22.1 24.6 20.1 25 tamx(m) 2.7 3.0 7.0 13.2 19.7 24.6 27.7 26.7 23.0 1 tamn(m) -5.0 -4.9 -0.7 4.4 10.1 15.1 18.6 17.4 13.9 ra(m) 129. 194. 290. 350. 445. 483. 486. 411. 334. 2 month jan feb mar apr may jun jul aug sep prw2(m) 0.498 0.443 0.445 0.483 0.412 0.355 0.316 0.397 0.461 0. prw1(m) 0.353 0.369 0.352 0.316 0.281 0.223 0.218 0.255 0.212 0. alfg(m) 0.763 0.697 0.723 0.699 0.652 0.660 0.636 0.644 0.571 0. betg(m) 10.54 13.67 12.40 11.81	17.1 11.1 4.5 8.4 3.2 -3.1 235. 136. 115. (mm)= 127.0 oct nov dec .448 0.527 0.500 .214 0.319 0.344 .665 0.660 0.718
betg(m) 11.58 14.33 14.17 12.04 11.91 10.85 11.38 16.18 18.01 15 ri(m) 7.6 9.7 9.9 10.4 7.6 9.4 22.1 24.6 20.1 25 tamx(m) 2.7 3.0 7.0 13.2 19.7 24.6 27.7 26.7 23.0 1 tamn(m) -5.0 -4.9 -0.7 4.4 10.1 15.1 18.6 17.4 13.9 ra(m) 129. 194. 290. 350. 445. 483. 486. 411. 334. 2 MASSACHUSETTS - NANTUCKET alat(deg)= 41.25 yrs= 43. elev (m)= 13.1 tp05(min)= 63.5 tp6(prw2(m) 0.498 0.443 0.445 0.483 0.412 0.355 0.316 0.397 0.461 0.prw1(m) 0.353 0.369 0.352 0.316 0.281 0.223 0.218 0.255 0.212 0.alfg(m) 0.763 0.697 0.723 0.699 0.652 0.660 0.636 0.644 0.571 0.betg(m) 10.54 13.67 12.40 11.81 12.88 10.21 15.32 16.66 18.47 15	17.1 11.1 4.5 8.4 3.2 -3.1 235. 136. 115. (mm)= 127.0 oct nov dec .448 0.527 0.500 .214 0.319 0.344 .665 0.660 0.718 .01 13.84 12.52
betg(m) 11.58 14.33 14.17 12.04 11.91 10.85 11.38 16.18 18.01 15 ri(m) 7.6 9.7 9.9 10.4 7.6 9.4 22.1 24.6 20.1 25 tamx(m) 2.7 3.0 7.0 13.2 19.7 24.6 27.7 26.7 23.0 1 tamn(m) -5.0 -4.9 -0.7 4.4 10.1 15.1 18.6 17.4 13.9 ra(m) 129. 194. 290. 350. 445. 483. 486. 411. 334. 2 MASSACHUSETTS - NANTUCKET alat(deg) 41.25 yrs 43. elev (m)= 13.1 tp05(mm)= 63.5 tp6(month jan feb mar apr may jun jul aug sep prw2(m) 0.498 0.443 0.445 0.483 0.412 0.355 0.316 0.397 0.461 0. prw1(m) 0.353 0.369 0.352 0.316 0.281 0.223 0.218 0.255 0.212 0. alfg(m) 0.763 0.697 0.723 0.699 0.652 0.660 0.636 0.644 0.571 0. betg(m) 10.54 13.67 12.40 11.81 12.88 10.21 15.32 16.66 18.47 15 ri(m) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	17.1 11.1 4.5 8.4 3.2 -3.1 1235. 136. 115. (mm) = 127.0 oct nov dec .448 0.527 0.500 .214 0.319 0.344 .665 0.660 0.718 5.01 13.84 12.52 0.0 0.0 0.0
betg(m) 11.58 14.33 14.17 12.04 11.91 10.85 11.38 16.18 18.01 15 ri(m) 7.6 9.7 9.9 10.4 7.6 9.4 22.1 24.6 20.1 22 tamx(m) 2.7 3.0 7.0 13.2 19.7 24.6 27.7 26.7 23.0 1 tamx(m) -5.0 -4.9 -0.7 4.4 10.1 15.1 18.6 17.4 13.9 ra(m) 129. 194. 290. 350. 445. 483. 486. 411. 334. 2 taxxacces and the second of the second	17.1 11.1 4.5 8.4 3.2 -3.1 1235. 136. 115. (mm) = 127.0 dec 0.448 0.527 0.500 1.214 0.319 0.344 1.665 0.660 0.718 1.01 13.84 12.52 0.0 0.0 0.0 11.3 5.8
betg(m) 11.58 14.33 14.17 12.04 11.91 10.85 11.38 16.18 18.01 15 ri(m) 7.6 9.7 9.9 10.4 7.6 9.4 22.1 24.6 20.1 25 tamx(m) 2.7 3.0 7.0 13.2 19.7 24.6 27.7 26.7 23.0 1 tamx(m) -5.0 -4.9 -0.7 4.4 10.1 15.1 18.6 17.4 13.9 ra(m) 129. 194. 290. 350. 445. 483. 486. 411. 334. 2 tamx(m) 2.7 3.0 194. 290. 350. 445. 483. 486. 411. 334. 2 tamx(m) 2.7 3.0 194. 290. 350. 445. 483. 486. 411. 334. 2 tamx(m) 0.498 0.443 0.445 0.483 0.412 0.355 0.316 0.397 0.461 0. 196. 196. 196. 196. 196. 196. 196. 196	17.1 11.1 4.5 8.4 3.2 -3.1 1235. 136. 115. (mm) = 127.0 oct nov dec .448 0.527 0.500 .214 0.319 0.344 .665 0.660 0.718 5.01 13.84 12.52 0.0 0.0 0.0

MICHIGAN -			eg)= 42.23	yrs= 32.		/ (m)= 188		(mm) = 48.3	tp6(mm)=			
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.496	0.465	0.500	0.527	0.463	0.455	0.357	0.352	0.450	0.468	0.493	0.510
prw1(m)	0.351	0.329	0.335	0.332	0.313	0.289	0.241	0.225	0.221	0.180	0.262	0.351
alfg(m)	0.695	0.775	0.772	0.741	0.684	0.776	0.713	0.704	0.778	0.672	0.743	0.651
betg(m)	5.36	5.16	5.87	8.61	8.76	9.86	12.06	13.41	8.51	11.18	7.34	6.63
ri(m)	6.6	8.4	8.9	10.9	21.8	18.8	43.4	38.9	13.2	9.7	5.6	6.9
tamx(m)	0.6	1.1	5.7	13.6	20.3	26.2	28.8	27.7	23.4	17.1	8.4	2.1
tamn(m)	-6.3	-6.4 205.	-2.6 304.	3.8 355.	9.7 478.	15.7 542.	18.2	17.6	13.3	7.1	0.9	-4.4
(m)ar	116. GRAND RAPI		304. lat(deg)= 4			elev (m)	535.	461. tp05(mm)=	368.	250.	131.	103.
month	jan	feb	mar	apr	may	jun	jul	eug Sue	sep	oct	nov	dec
prw2(m)	0.661	0.510	0.554	0.534	0.469	0.408	0.391	0.382	0.438	0.476	0.578	0.624
prw1(m)	0.362	0.392	0.352	0.333	0.278	0.288	0.252	0.218	0.276	0.230	0.295	0.373
alfg(m)	0.802	0.788	0.762	0.772	0.706	0.699	0.756	0.757	0.646	0.673	0.727	0.805
betg(m)	3.89	3.99	5.79	9.47	9.63	13.06	11.13	11.73	12.90	11.46	8.18	4.39
ri(m)	6.6	10.9	7.9	13.2	19.0	23.4	25.4	34.5	14.7	17.3	10.4	9.1
tamx(m)	-0.4	0.1	5.3	13.7	20.5	26.3	29.2	28.1	23.5	17.1	7.9	1.3
tamn(m)	-8.5	-8.7	-4.5	1.6	7.2	13.1	15.6	14.6	10.0	4.2	-2.0	-6.8
ra(m)	120.	209.	308.	358.	482.	546.	539.	465.	372.	254.	135.	107.
	- DULUTH		eg) = 46.83	yrs= 30.		(m) = 435		(mn) = 51.3	tp6(mm)=	99.1		
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.528	0.463	0.474	0.498	0.546	0.506	0.439	0.444	0.509	0.524	0.559	0.574
prw1(m)	0.291	0.272	0.269	0.291	0.342	0.324	0.307	0.324	0.298	0.212	0.239	0.296
alfg(m)	0.819	0.798	0.676	0.713	0.723	0.700	0.701	0.635	0.716	0.688	0.618	0.730
betg(m)	2.90	2.87	5.71	8.13	8.86	12.14	12.37	12.98	10.03	8.38	6.76	4.04
ri(m)	3.0	4.3	4.3	6.1	16.3	22.4	36.6	19.8	23.1	26.4	4.8	3.6
tamx(m)	-7.8	-5.9	-0.5	8.4	15.9	21.3	25.1	23.7	18.2	12.5	1.7	-5.4
tamn(m)	-18.1	-17.7	-11.4	-2.8	3.2	8.5	12.2	11.6	6.5	1.4	-6.9	-14.6
4	450	0.00			101							
ra(m)	158.	250.	358.	416.	486.	525.	547.	476.	<b>356.</b>	227.	136.	114.
MINNESOTA	- MINNEAPOL	IS a	358. lat(deg)= 4		486. = <b>3</b> 3.	elev (m)	= 254.2	476. tp05(mm)=		227. (mm)= 1		
MINNESOTA month	- MINNEAPOL jan	IS a	lat(deg)= 4 mar	4.88 yrs	= 33. may	elev (m): jun	= 254.2 jul	tp05(mm)= aug	59.7 tp66	(mm)= 10 oct	09.2 nov	dec
MINNESOTA month prw2(m)	- MINNEAPOL jan 0.416	IS a feb 0.414	lat(deg)= 4 mar 0.419	4.88 yrs: apr 0.407	= 33. may 0.502	elev (m): jun 0.496	= 254.2 jul 0.361	tp05(mm)= aug 0.383	59.7 tp66 sep 0.455	(mm)= 10 oct 0.431	09.2 nov 0.407	dec 0.447
MINNESOTA month prw2(m) prw1(m)	- MINNEAPOL jan 0.416 0.221	reb 6.414 0.188	lat(deg)= 4 mar 0.419 0.275	4.88 yrs: apr 0.407 0.283	= 33. may 0.502 0.321	elev (m): jun 0.496 0.331	= 254.2 jul 0.361 0.304	tp05(mm)= aug 0.383 0.266	59.7 tp66 sep 0.455 0.252	(mm)= 10 oct 0.431 0.182	09.2 nov 0.407 0.198	dec 0.447 0.247
MINNESOTA month prw2(m) prw1(m) alfg(m)	- MINNEAPOL jan 0.416 0.221 0.826	feb 0.414 0.188 0.730	mar 0.419 0.275 0.670	4.88 yrs: apr 0.407 0.283 0.785	= 33. may 0.502 0.321 0.751	elev (m): jun 0.496 0.331 0.760	254.2 jul 0.361 0.304 0.627	tp05(mm)= aug 0.383 0.266 0.732	59.7 tp66 sep 0.455 0.252 0.771	(mm)= 10 oct 0.431 0.182 0.642	nov 0.407 0.198 0.675	dec 0.447 0.247 0.826
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62	feb 0.414 0.188 0.730 4.32	mar 0.419 0.275 0.670 6.68	4.88 yrs: apr 0.407 0.283 0.785 6.81	= 33. may 0.502 0.321 0.751 9.45	elev (m): jun 0.496 0.331 0.760 10.64	= 254.2 jul 0.361 0.304 0.627 15.75	tp05(mm)= aug 0.383 0.266 0.732 12.50	59.7 tp66 sep 0.455 0.252 0.771 9.12	(mm)= 10 oct 0.431 0.182 0.642 9.96	nov 0.407 0.198 0.675 5.69	dec 0.447 0.247 0.826 2.97
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5	reb 0.414 0.188 0.730 4.32 3.3	mar 0.419 0.275 0.670 6.68 3.6	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0	= 33. may 0.502 0.321 0.751 9.45 38.1	elev (m): jun 0.496 0.331 0.760 10.64 57.7	= 254.2 jul 0.361 0.304 0.627 15.75 23.6	tp05(mm)= aug 0.383 0.266 0.732 12.50 53.8	59.7 tp66 sep 0.455 0.252 0.771 9.12 11.2	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4	nov 0.407 0.198 0.675 5.69 4.3	dec 0.447 0.247 0.826 2.97 4.1
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3	reb 0.414 0.188 0.730 4.32 3.3 -3.2	Mar 0.419 0.275 0.670 6.68 3.6 2.9	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6	elev (m): jun 0.496 0.331 0.760 10.64 57.7 25.6	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8	tp05(mm)= aug 0.383 0.266 0.732 12.50 53.8 27.4	59.7 tp66 sep 0.455 0.252 0.771 9.12 11.2 22.3	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7	dec 0.447 0.247 0.826 2.97 4.1
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5	IS a feb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0	Mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4	elev (m); jun 0.496 0.331 0.760 10.64 57.7 25.6 13.1	254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9	tp05(mm)= aug 0.383 0.266 0.732 12.50 53.8 27.4 14.8	59.7 tp66 sep 0.455 0.252 0.771 9.12 11.2 22.3 9.2	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.9	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164.	reb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256.	Mar (deg)= 4 mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364.	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422.	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492.	elev (m): jun 0.496 0.331 0.760 10.64 57.7 25.6 13.1 531.	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553.	tp05(mm)= aug 0.383 0.266 0.732 12.50 53.8 27.4 14.8 482.	59.7 tp66 sep 0.455 0.252 0.771 9.12 11.2 22.3 9.2 362.	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.9 233.	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7	dec 0.447 0.247 0.826 2.97 4.1
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamrn(m) ra(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA	reb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256.	Mar (deg)= 4 mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364.deg)= 39.12	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele	elev (m): jun 0.496 0.331 0.760 10.64 57.7 25.6 13.1 531. EV (m)= 23	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0	tp05(mm)= aug 0.383 0.266 0.732 12.50 53.8 27.4 14.8 482. 5(mm)= 67.3	59.7 tp6(sep 0.455 0.252 0.771 9.12 11.2 22.3 9.2 362. tp6(mm)=	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.9 233. = 134.6	09.2 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142.	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120.
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MISSOURI - month	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA	reb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat(c	Mar(deg)= 4 mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364. deg)= 39.12	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29. apr	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may	elev (m): jun 0.496 0.331 0.760 10.64 57.7 25.6 13.1 531. ev (m)= 23 jun	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0 jul	tp05(mm)= aug 0.383 0.266 0.732 12.50 53.8 27.4 14.8 482. 5(mm)= 67.3 aug	59.7 tp66 sep 0.455 0.252 0.771 9.12 11.2 22.3 9.2 362. tp6(mm)= sep	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.9 233. = 134.6 oct	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142.	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MISSOURI - month prw2(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA jan 0.412	reb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat(c feb 0.405	Mar (deg)= 4 mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364. deg)= 39.12 mar 0.456	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29 apr 0.477	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may 0.445	elev (m): jun 0.496 0.331 0.760 10.64 57.7 25.6 13.1 531. v (m)= 23 jun 0.473	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0' jul 0.454	tp05(mm)= aug 0.383 0.266 0.732 12.50 53.8 27.4 14.8 482. 5(mm)= 67.3 aug 0.340	59.7 tp66 sep 0.455 0.252 0.771 9.12 11.2 22.3 9.2 362. tp6(mm)= sep 0.415	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.9 233. = 134.6 oct 0.403	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142. nov 0.353	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec 0.424
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MISSOURI month prw2(m) prw1(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA jan 0.412 0.181	reb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat(c feb 0.405 0.224	Mar (deg)= 4 Mar (0.419 (0.275 (0.670 (6.68 (3.6 (2.9 (-8.0 (3.64 (4.69 (4.99	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29 apr 0.477 0.309	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may 0.445 0.279	elev (m): jun 0.496 0.331 0.760 10.64 57.7 25.6 13.1 531. v (m)= 23' jun 0.473 0.279	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0' jul 0.454 0.243	tp05(mm)= aug 0.383 0.266 0.732 12.50 53.8 27.4 14.8 482. 5(mm)= 67.3 aug 0.340 0.205	59.7 tp66 sep 0.455 0.252 0.771 9.12 11.2 22.3 9.2 362. tp6(mm)= sep 0.415 0.199	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.9 233. = 134.6 oct 0.403 0.182	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142. nov 0.353 0.163	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec 0.424 0.208
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamrn(m) ra(m) MISSOURI - month prw2(m) prw1(m) alfg(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA jan 0.412 0.181 0.643	IS al feb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat(c feb 0.405 0.224 0.712	Mar (deg)= 4 mar (0.419 (0.275 (0.670 (6.68 (3.6 (2.9 (4.695) (4.695 (4.695 (4.695 (4.695 (4.695 (4.695 (4.695 (4.695 (4.695) (4.695 (4.695 (4.695 (4.695 (4.695 (4.695) (4.695 (4.695 (4.695) (4.695 (4.695 (4.695 (4.695 (4.695 (4.695 (4.695 (4.695 (4.695	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29 apr 0.477 0.309 0.816	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may 0.445 0.279 0.803	elev (m): jun 0.496 0.331 0.760 10.64 57.7 25.6 13.1 531. v (m)= 23 jun 0.473 0.279 0.677	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0 jul 0.454 0.243 0.706	tp05(mm)= aug 0.383 0.266 0.732 12.50 53.8 27.4 14.8 482. 5(mm)= 67.3 aug 0.340 0.205 0.662	59.7 tp66 sep 0.455 0.252 0.771 9.12 11.2 22.3 9.2 362. tp6(mm)= sep 0.415 0.199 0.612	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 233. = 134.6 oct 0.403 0.182 0.585	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142. nov 0.353 0.163 0.735	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec 0.424 0.208 0.750
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) MISSOURI month prw2(m) prw1(m) alfg(m) betg(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA jan 0.412 0.181 0.643 8.00	reb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat(c feb 0.405 0.224 0.712 8.08	Mar (deg)= 4  Mar (0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364. deg)= 39.12  Mar (0.456 0.274 0.695 9.12	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29 apr 0.477 0.309 0.816 9.50	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may 0.445 0.279 0.803 12.78	elev (m): jun 0.496 0.331 0.760 10.64 57.7 25.6 13.1 531. v (m)= 23' jun 0.473 0.279 0.677 15.14	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0' jul 0.454 0.243 0.706 15.37	tp05(mm)= aug 0.383 0.266 0.732 12.50 53.8 27.4 14.8 482. 5(mm)= 67.3 aug 0.340 0.205 0.662 14.35	59.7 tp66 sep 0.455 0.252 0.771 9.12 11.2 22.3 9.2 362. tp6(mm)= sep 0.415 0.199 0.612 20.45	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.9 233. = 134.6 oct 0.403 0.182 0.585 18.92	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142. nov 0.353 0.163 0.735 9.35	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec 0.424 0.208 0.750 6.99
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MISSOURI - month prw2(m) prw1(m) prw1(m) betg(m) betg(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA jan 0.412 0.181 0.643 8.00 5.6	reb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat(c feb 0.405 0.224 0.712 8.08 9.9	lat(deg)= 4 mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364. deg)= 39.12 mar 0.456 0.274 0.695 9.12 14.5	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29 apr 0.477 0.309 0.816 9.50 20.8	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may 0.445 0.279 0.803 12.78 30.5	elev (m): jun 0.496 0.331 0.760 10.64 57.7 25.6 13.1 531. v (m)= 23 jun 0.473 0.279 0.677 15.14 76.2	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0 jul 0.454 0.243 0.706 15.37 22.9	tp05(mm)= aug 0.383 0.266 0.732 12.50 53.8 27.4 14.8 482. 5(mm)= 67.3 aug 0.340 0.205 0.662 14.35 26.9	59.7 tp66 sep 0.455 0.252 0.771 9.12 11.2 22.3 9.2 362. tp6(mm)= sep 0.415 0.199 0.612 20.45 39.6	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.33. = 134.6 oct 0.403 0.182 0.585 18.92 11.4	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142. nov 0.353 0.163 0.735 9.35 11.9	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec 0.424 0.208 0.750 6.99 7.1
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MISSOURI - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA jan 0.412 0.181 0.643 8.00 5.6 4.1	IS feb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat(c feb 0.405 0.224 0.712 8.08 9.9 6.2	Mar (deg)= 4 mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364.deg)= 39.12 mar 0.456 0.274 0.695 9.12 14.5 11.1	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29 apr 0.477 0.309 0.816 9.50 20.8 18.4	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may 0.445 0.279 0.803 12.78 30.5 23.8	elev (m): jun 0.496 0.331 0.760 10.64 57.7 25.6 13.1 531. v (m)= 23' jun 0.473 0.279 0.677 15.14 76.2 29.1	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0 jul 0.454 0.243 0.706 15.37 22.9 32.1	tp05(mm)=     aug     0.383     0.266     0.732     12.50     53.8     27.4     14.8     482. 5(mm)= 67.3     aug     0.340     0.205     0.662     14.35     26.9     31.2	59.7 tp66 sep 0.455 0.252 0.771 9.12 11.2 22.3 9.2 362. tp6(mm)= sep 0.415 0.199 0.612 20.45 39.6 27.1	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.33. = 134.6 oct 0.403 0.182 0.585 11.4 21.1	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142. nov 0.353 0.163 0.735 9.35 11.9 11.8	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec 0.424 0.208 0.750 6.99 7.1 5.8
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MISSOURI - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA jan 0.412 0.181 0.643 8.00 5.6 4.1 -5.9	reb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat(c feb 0.405 0.224 0.712 8.08 9.9 6.2 -4.3	lat(deg)= 4 mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364. deg)= 39.12 mar 0.456 0.274 0.695 9.12 14.5 11.1 -0.1	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29 apr 0.477 0.309 0.816 9.50 20.8 18.4 6.6	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may 0.445 0.279 0.803 12.78 30.5 23.8 12.2	elev (m): jun 0.496 0.331 0.760 10.64 57.7 25.6 13.1 531. v (m)= 23' jun 0.473 0.279 0.677 15.14 76.2 29.1 17.6	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0 jul 0.454 0.243 0.706 15.37 22.9 32.1 19.8	tp05(mm)=     aug     0.383     0.266     0.732     12.50     53.8     27.4     14.8     482. 5(mm)= 67.3     aug     0.340     0.205     0.662     14.35     26.9     31.2     19.0	59.7 tp6(sep 0.455 0.252 0.771 9.12 11.2 22.3 9.2 362. tp6(mm)= sep 0.415 0.199 0.612 20.45 39.6 27.1 14.3	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.33. = 134.6 oct 0.403 0.182 0.585 11.4 21.1 8.5	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142. nov 0.353 0.163 0.735 9.35 11.9 11.8 0.7	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec 0.424 0.208 0.750 6.99 7.1 5.8 -3.8
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) month prw2(m) prw1(m) prw1(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA jan 0.412 0.181 0.643 8.00 5.6 4.1 -5.9 173.	reb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat(c feb 0.405 0.224 0.712 8.08 9.9 6.2 -4.3 251.	lat(deg)= 4 mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364. deg)= 39.12 mar 0.456 0.274 0.695 9.12 14.5 11.1 -0.1 340.	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29 apr 0.477 0.309 0.816 9.50 20.8 18.4 6.6 434.	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may 0.445 0.279 0.803 12.78 30.5 23.8 12.2 530.	elev (m): jun 0.496 0.331 0.760 10.64 57.7 25.6 13.1 531. v (m)= 23' jun 0.473 0.279 0.677 15.14 76.2 29.1 17.6 574.	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0 jul 0.454 0.243 0.706 15.37 22.9 32.1 19.8 574.	tp05(mm)=     aug     0.383     0.266     0.732     12.50     53.8     27.4     14.8     482. 5(mm)= 67.3     aug     0.340     0.205     0.662     14.35     26.9     31.2     19.0     522.	59.7 tp6(sep 0.455 0.252 0.771 9.12 11.2 22.3 9.2 362. tp6(mm)= sep 0.415 0.199 0.612 20.45 39.6 27.1 14.3 453.	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.33. = 134.6 oct 0.403 0.182 0.585 18.92 11.4 21.1 8.5 322.	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142. nov 0.353 0.163 0.735 9.35 11.9 11.8 0.7 225.	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec 0.424 0.208 0.750 6.99 7.1 5.8
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MISSOURI - month prw2(m) prw1(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamn(m) ra(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA jan 0.412 0.181 0.643 8.00 5.6 4.1 -5.9 173. KANSAS CITY	feb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat(c feb 0.405 0.224 0.712 8.08 9.9 6.2 -4.3 251.	lat(deg)= 4 mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364. deg)= 39.12 mar 0.456 0.274 0.695 9.12 14.5 11.1 -0.1 340. at(deg)= 39	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29 apr 0.477 0.309 0.816 9.50 20.8 18.4 6.6 43412 yrs=	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may 0.445 0.279 0.803 12.78 30.5 23.8 12.2 530. 35.	elev (m): jun 0.496 0.331 0.760 10.64 57.7 25.6 13.1 531. v (m)= 23' jun 0.473 0.279 0.677 15.14 76.2 29.1 17.6 574. elev (m)=	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0 jul 0.454 0.243 0.706 15.37 22.9 32.1 19.8 574.	tp05(mm)= aug 0.383 0.266 0.732 12.50 53.8 27.4 14.8 482. 5(mm)= 67.3 aug 0.340 0.205 0.662 14.35 26.9 31.2 19.0 522. tp05(mm)= 7	59.7 tp66 sep 0.455 0.252 0.771 9.12 11.2 22.3 9.2 362. tp6(mm)= sep 0.415 0.199 0.612 20.45 39.6 27.1 14.3 453. 2.4 tp6(m	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.33. = 134.6 oct 0.403 0.182 0.585 18.92 11.4 21.1 8.5 322. m)= 146	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142. nov 0.353 0.163 0.735 9.35 11.9 11.8 0.7 225.	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec 0.424 0.208 0.750 6.99 7.1 5.8 -3.8 158.
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) MISSOURI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) MISSOURI month	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA jan 0.412 0.181 0.643 8.00 5.6 4.1 -5.9 173. KANSAS CITY	feb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat(c feb 0.405 0.224 0.712 8.08 9.9 6.2 -4.3 251.	lat(deg)= 4 mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364. deg)= 39.12 mar 0.456 0.274 0.695 9.12 14.5 11.1 -0.1 340. at(deg)= 39 mar	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29 apr 0.477 0.309 0.816 9.50 20.8 18.4 6.6 43412 yrs= apr	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may 0.445 0.279 0.803 12.78 30.5 23.8 12.2 530. 35. may	elev (m): jun 0.496 0.331 0.760 10.64 57.7 25.6 13.1 531. ev (m)= 23 jun 0.473 0.279 0.677 15.14 76.2 29.1 17.6 574. elev (m)=	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0 jul 0.454 0.243 0.706 15.37 22.9 32.1 19.8 574.	tp05(mm)= aug 0.383 0.266 0.732 12.50 53.8 27.4 14.8 482. 5(mm)= 67.3 aug 0.340 0.205 0.662 14.35 26.9 31.2 19.0 522. tp05(mm)= 7 aug	59.7 tp66 sep 0.455 0.252 0.771 9.12 11.2 22.3 9.2 362. tp6(mm)= sep 0.415 0.199 0.612 20.45 39.6 27.1 14.3 453. 2.4 tp6(m sep	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.33.= 134.6 oct 0.403 0.182 0.585 18.92 11.4 21.1 8.5 322. mm)= 146 oct	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142. nov 0.353 0.163 0.735 9.35 11.9 11.8 0.7 225.	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec 0.424 0.208 0.750 6.99 7.1 5.8 -3.8 158. dec
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MISSOURI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) month prw2(m) MISSOURI month prw2(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA jan 0.412 0.181 0.643 8.00 5.6 4.1 -5.9 173. KANSAS CITY jan 0.364	IS feb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat( feb 0.405 0.224 0.712 8.08 9.9 6.2 -4.3 251. Y feb 0.304	lat(deg)= 4 mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364. deg)= 39.12 mar 0.456 0.274 0.695 9.12 14.5 11.1 -0.1 340. at(deg)= 39 mar 0.438	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29 apr 0.477 0.309 0.816 9.50 20.8 18.4 6.6 43412 yrs= apr 0.485	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may 0.445 0.279 0.803 12.78 30.5 23.8 12.2 530. 35. may 0.439	elev (m):     jun     0.496     0.331     0.760     10.64     57.7     25.6     13.1     531.     v (m)= 23'     jun     0.473     0.279     0.677     15.14     76.2     29.1     17.6     574. elev (m)=     jun     0.450	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0 jul 0.454 0.243 0.706 15.37 22.9 32.1 19.8 574. 226.2 jul 0.393	tp05(mm)=     aug     0.383     0.266     0.732     12.50     53.8     27.4     14.8     482. 5(mm)= 67.3     aug     0.340     0.205     0.662     14.35     26.9     31.2     19.0     522. tp05(mm)= 7     aug     0.443	59.7 tp66 sep 0.455 0.252 0.771 9.12 11.2 22.3 9.2 362. tp6(mm)= sep 0.415 0.199 0.612 20.45 39.6 27.1 14.3 453. 2.4 tp6(m sep 0.448	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.9 233.= 134.6 oct 0.403 0.182 0.585 18.92 11.4 21.1 8.5 322. mm)= 140 oct 0.464	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142. nov 0.353 0.163 0.735 9.35 11.9 11.8 0.7 225. 6.1 nov 0.357	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec 0.424 0.208 0.750 6.99 7.1 5.8 -3.8 158. dec 0.381
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MISSOURI month prw2(m) prw1(m) betg(m) ri(m) tamx(m) tamn(m) tamn(m) month prw2(m) prw1(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA jan 0.412 0.181 0.643 8.00 5.6 4.1 -5.9 173. KANSAS CITY jan 0.364 0.157	feb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat(c feb 0.405 0.224 0.712 8.08 9.9 6.2 -4.3 251. Y ala feb 0.304 0.216	lat(deg)= 4 mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364.deg)= 39.12 mar 0.456 0.274 0.695 9.12 14.5 11.1 -0.1 340. at(deg)= 39 mar 0.438 0.215	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29 apr 0.477 0.309 0.816 9.50 20.8 18.4 6.6 43412 yrs= apr 0.485 0.260	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may 0.445 0.279 0.803 12.78 30.5 23.8 12.2 530. 35. may 0.439 0.305	elev (m):     jun     0.496     0.331     0.760     10.64     57.7     25.6     13.1     531.     v (m)= 23'     jun     0.473     0.279     0.677     15.14     76.2     29.1     17.6     574. elev (m)=     jun     0.450     0.284	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0' jul 0.454 0.243 0.706 15.37 22.9 32.1 19.8 574. 226.2 jul 0.393 0.235	tp05(mm)=     aug     0.383     0.266     0.732     12.50     53.8     27.4     14.8     482. 5(mm)= 67.3     aug     0.340     0.205     0.662     14.35     26.9     31.2     19.0     522. tp05(mm)= 7     aug     0.443     0.203	59.7 tp66 sep 0.455 0.252 0.771 9.12 11.2 22.3 9.2 362. tp6(mm)= sep 0.415 0.199 0.612 20.45 39.6 27.1 14.3 453. 2.4 tp6(msep 0.448 0.214	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.9 233. = 134.6 oct 0.403 0.182 0.585 18.92 11.4 21.1 8.5 322. mm)= 144 oct 0.464 0.156	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142. nov 0.353 0.163 0.735 9.35 11.9 11.8 0.7 225. 6.1	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec 0.424 0.208 0.750 6.99 7.1 5.8 -3.8 158. dec 0.381 0.166
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) prw2(m) prw1(m) prw1(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) month prw2(m) prw1(m) alfg(m) month prw2(m) prw1(m) alfg(m) prw1(m) alfg(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA jan 0.412 0.181 0.643 8.00 5.6 4.1 -5.9 173. KANSAS CITY jan 0.364 0.157 0.727	feb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat(c feb 0.405 0.224 0.712 8.08 9.9 6.2 -4.3 251. Y ala feb 0.304 0.216 0.713	lat(deg)= 4 mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364.deg)= 39.12 mar 0.456 0.274 0.695 9.12 14.5 11.1 -0.1 340. at(deg)= 39 mar 0.438 0.215 0.682	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29 apr 0.477 0.309 0.816 9.50 20.8 18.4 6.6 43412 yrs= apr 0.485 0.260 0.754	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may 0.445 0.279 0.803 12.78 30.5 23.8 12.2 530. 35. may 0.439 0.305 0.687	elev (m):     jun     0.496     0.331     0.760     10.64     57.7     25.6     13.1     531.     v (m)= 23     jun     0.473     0.279     0.677     15.14     76.2     29.1     17.6     574.     elev (m)=     jun     0.450     0.284     0.786	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0 jul 0.454 0.243 0.706 15.37 22.9 32.1 19.8 574. 26.2 jul 0.393 0.235 0.672	tp05(mm)=     aug     0.383     0.266     0.732     12.50     53.8     27.4     14.8     482. 5(mm)= 67.3     aug     0.340     0.205     0.662     14.35     26.9     31.2     19.0     522. tp05(mm)= 7     aug     0.443     0.203     0.646	59.7 tp6(	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.33. = 134.6 oct 0.403 0.182 0.585 18.92 11.4 21.1 8.5 322. mm)= 140 oct 0.464 0.156 0.695	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142. nov 0.353 0.163 0.735 9.35 11.9 11.8 0.7 225. 6.1	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec 0.424 0.208 0.750 6.99 7.1 5.8 -3.8 158. dec 0.381 0.166 0.859
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MISSOURI - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamn(m) ra(m) month prw2(m) prw1(m) alfg(m) betg(m) betg(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA jan 0.412 0.181 0.643 8.00 5.6 4.1 -5.9 173. KANSAS CITV jan 0.364 0.157 0.727 6.58	IS feb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat(c feb 0.405 0.224 0.712 8.08 9.9 6.2 -4.3 251. Y ala feb 0.304 0.216 0.713 7.32	lat(deg)= 4 mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364. deg)= 39.12 mar 0.456 0.274 0.695 9.12 14.5 11.1 -0.1 340. at(deg)= 39 mar 0.438 0.215 0.682 11.18	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29 apr 0.477 0.309 0.816 9.50 20.8 18.4 6.6 43412 yrs= apr 0.485 0.260 0.754 11.53	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may 0.445 0.279 0.803 12.78 30.5 23.8 12.2 530. 35. may 0.439 0.305 0.687 14.73	elev (m):     jun     0.496     0.331     0.760     10.64     57.7     25.6     13.1     531.     v (m)= 23'     jun     0.473     0.279     0.677     15.14     76.2     29.1     17.6     574. elev (m)=     jun     0.480     0.284     0.786     16.61	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0 jul 0.454 0.243 0.706 15.37 22.9 32.1 19.8 574. 26.2 jul 0.393 0.235 0.672 19.89	tp05(mm)=     aug     0.383     0.266     0.732     12.50     53.8     27.4     14.8     482. 5(mm)= 67.3     aug     0.340     0.205     0.662     14.35     26.9     31.2     19.0     522. tp05(mm)= 7     aug     0.443     0.203     0.646     18.69	59.7 tp66 sep 0.455 0.252 0.771 9.12 11.2 22.3 9.2 362. tp6(mm)= sep 0.415 0.199 0.612 20.45 39.6 27.1 14.3 453. 2.4 tp6(ms)= sep 0.448 0.214 0.662 19.81	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.33. = 134.6 oct 0.403 0.182 11.4 21.1 8.5 322. mm)= 146 0.695 16.08	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142. nov 0.353 0.163 0.735 9.35 11.9 11.8 0.7 225. 6.1	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec 0.424 0.208 0.750 6.99 7.1 5.8 -3.8 158. dec 0.381 0.166 0.859 6.05
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) prw1(m) prw1(m) alfg(m) betg(m) tamx(m) tamn(m) ra(m) month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamn(m) ra(m) month prw2(m) prw1(m) prw1(m) prw1(m) prw1(m) prw1(m) alfg(m) betg(m) ri(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA jan 0.412 0.181 0.643 8.00 5.6 4.1 -5.9 173. KANSAS CITY jan 0.364 0.157 0.727 6.58 5.6	IS feb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat(c feb 0.405 0.224 0.712 8.08 9.9 6.2 -4.3 251. Y ala feb 0.304 0.216 0.713 7.32 8.1	lat(deg)= 4 mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364. deg)= 39.12 mar 0.456 0.274 0.695 9.12 14.5 11.1 -0.1 340. at(deg)= 39 mar 0.438 0.215 0.682 11.18 19.0	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29 apr 0.477 0.309 0.816 9.50 20.8 18.4 6.6 43412 yrs= apr 0.485 0.260 0.754 11.53 27.9	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may 0.445 0.279 0.803 12.78 30.5 23.8 12.2 530. 35. may 0.439 0.305 0.687 14.73 26.4	elev (m): jun 0.496 0.331 0.760 10.64 57.7 25.6 13.1 531. v (m)= 23' jun 0.473 0.279 0.677 15.14 76.2 29.1 17.6 574. elev (m)= jun 0.450 0.284 0.786 16.61 21.8	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0 jul 0.454 0.243 0.706 15.37 22.9 32.1 19.8 574. 226.2 jul 0.393 0.672 19.89 30.0	tp05(mm)=     aug     0.383     0.266     0.732     12.50     53.8     27.4     14.8     482. 5(mm)= 67.3     aug     0.340     0.205     0.662     14.35     26.9     31.2     19.0     522. tp05(mm)= 7     aug     0.443     0.203     0.646     18.69     36.8	59.7 tp66     sep     0.455     0.252     0.771     9.12     11.2     22.3     9.2     362.     tp6(mm)=     sep     0.415     0.199     0.612     20.45     39.6     27.1     14.3     453.     2.4 tp6(m     sep     0.448     0.214     0.662     19.81     33.0	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.33. = 134.6 oct 0.403 0.182 0.585 11.4 21.1 8.5 322. m)= 146 oct 0.464 0.156 0.695 16.08 29.0	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142. nov 0.353 0.163 0.735 9.35 11.9 11.8 0.7 225. 6.1 nov 0.357 0.155 0.357 0.155 0.553 13.23 13.23	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec 0.424 0.208 0.750 6.99 7.1 5.8 -3.8 158. dec 0.381 0.166 0.859 6.05 20.3
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) prw1(m) prw1(m) prw1(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) month prw2(m) prw1(m) alfg(m) betg(m) prw1(m) prw1(m) prw1(m) prw1(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	- MINNEAPOL	IS feb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat(c feb 0.405 0.224 0.712 8.08 9.9 6.2 -4.3 251. Y ala feb 0.304 0.216 0.713 7.32 8.1 7.1	lat(deg)= 4 mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364. deg)= 39.12 mar 0.456 0.274 0.695 9.12 14.5 11.1 -0.1 340. at(deg)= 39 mar 0.438 0.215 0.682 11.18 19.0 11.4	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29 apr 0.477 0.309 0.816 9.50 20.8 18.4 6.6 43412 yrs= apr 0.485 0.260 0.754 11.53 27.9 18.7	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may 0.445 0.279 0.803 12.78 30.5 23.8 12.2 530. 35. may 0.439 0.305 0.687 14.73 26.4 23.9	elev (m): jun 0.496 0.331 0.760 10.64 57.7 25.6 13.1 531. v (m)= 23' jun 0.473 0.279 0.677 15.14 76.2 29.1 17.6 574. elev (m)= jun 0.450 0.284 0.786 16.61 21.8 29.6	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0 jul 0.454 0.243 0.706 15.37 22.9 32.1 19.8 574. 226.2 jul 0.393 0.235 0.672 19.89 30.0 33.3	tp05(mm)=     aug     0.383     0.266     0.732     12.50     53.8     27.4     14.8     482. 5(mm)= 67.3     aug     0.340     0.205     0.662     14.35     26.9     31.2     19.0     522. tp05(mm)= 7     aug     0.443     0.203     0.443     0.203     0.446     18.69     36.8     32.4	59.7 tp6(	(mm)= 10 oct 0.431 0.182 0.642 9.06 10.4 15.9 2.33. = 134.6 oct 0.403 0.182 0.585 18.92 11.4 8.5 322. m)= 146 oct 0.464 0.156 0.695 16.08 29.0 22.0	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142. nov 0.353 0.163 0.735 9.35 11.9 11.8 0.7 225. 6.1 nov 0.357 0.357 0.553 13.23 13.2 12.5	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec 0.424 0.208 0.750 6.99 7.1 5.8 -3.8 158. dec 0.381 0.166 0.859 6.05 20.3 6.5
MINNESOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) prw1(m) prw1(m) alfg(m) betg(m) tamx(m) tamn(m) ra(m) month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamn(m) ra(m) month prw2(m) prw1(m) prw1(m) prw1(m) prw1(m) prw1(m) alfg(m) betg(m) ri(m)	- MINNEAPOL jan 0.416 0.221 0.826 2.62 2.5 -5.3 -16.5 164. COLUMBIA jan 0.412 0.181 0.643 8.00 5.6 4.1 -5.9 173. KANSAS CITY jan 0.364 0.157 0.727 6.58 5.6	IS feb 0.414 0.188 0.730 4.32 3.3 -3.2 -15.0 256. alat(c feb 0.405 0.224 0.712 8.08 9.9 6.2 -4.3 251. Y ala feb 0.304 0.216 0.713 7.32 8.1	lat(deg)= 4 mar 0.419 0.275 0.670 6.68 3.6 2.9 -8.0 364. deg)= 39.12 mar 0.456 0.274 0.695 9.12 14.5 11.1 -0.1 340. at(deg)= 39 mar 0.438 0.215 0.682 11.18 19.0	4.88 yrs: apr 0.407 0.283 0.785 6.81 19.0 13.2 0.4 422. yrs= 29 apr 0.477 0.309 0.816 9.50 20.8 18.4 6.6 43412 yrs= apr 0.485 0.260 0.754 11.53 27.9	= 33. may 0.502 0.321 0.751 9.45 38.1 20.6 7.4 492. ele may 0.445 0.279 0.803 12.78 30.5 23.8 12.2 530. 35. may 0.439 0.305 0.687 14.73 26.4	elev (m): jun 0.496 0.331 0.760 10.64 57.7 25.6 13.1 531. v (m)= 23' jun 0.473 0.279 0.677 15.14 76.2 29.1 17.6 574. elev (m)= jun 0.450 0.284 0.786 16.61 21.8	= 254.2 jul 0.361 0.304 0.627 15.75 23.6 28.8 15.9 553. 7.1 tp0 jul 0.454 0.243 0.706 15.37 22.9 32.1 19.8 574. 226.2 jul 0.393 0.672 19.89 30.0	tp05(mm)=     aug     0.383     0.266     0.732     12.50     53.8     27.4     14.8     482. 5(mm)= 67.3     aug     0.340     0.205     0.662     14.35     26.9     31.2     19.0     522. tp05(mm)= 7     aug     0.443     0.203     0.646     18.69     36.8	59.7 tp66     sep     0.455     0.252     0.771     9.12     11.2     22.3     9.2     362.     tp6(mm)=     sep     0.415     0.199     0.612     20.45     39.6     27.1     14.3     453.     2.4 tp6(m     sep     0.448     0.214     0.662     19.81     33.0	(mm)= 10 oct 0.431 0.182 0.642 9.96 10.4 15.9 2.33. = 134.6 oct 0.403 0.182 0.585 11.4 21.1 8.5 322. m)= 146 oct 0.464 0.156 0.695 16.08 29.0	09.2 nov 0.407 0.198 0.675 5.69 4.3 4.7 -5.7 142. nov 0.353 0.163 0.735 9.35 11.9 11.8 0.7 225. 6.1 nov 0.357 0.155 0.357 0.155 0.553 13.23 13.23	dec 0.447 0.247 0.826 2.97 4.1 -2.6 -12.9 120. dec 0.424 0.208 0.750 6.99 7.1 5.8 -3.8 158. dec 0.381 0.166 0.859 6.05 20.3

MISSOURI -	_		deg)= 38.	•		ev (m)= 16		5(mm) = 63	3.5 tp6(m	m)= 129.5		
month		feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)		0.384	0.477	0.487	0.476	0.487	0.438	0.375	0.426	0.387	0.440	0.453
prw1(m)		0.254	0.276	0.328	0.273	0.243	0.224	0.201	0.190	0.184	0.193	0.218
alfg(m)		0.670	0.725	0.814	0.716	0.664	0.674	0.735	0.796	0.813	0.692	0.753
betg(m)		9.96	9.22	9.96	12.01	16.31	15.82	11.10	11.02	10.59	10.95	7.77
ri(m)		9.1	12.4	21.8	26.9	33.0	41.4	40.6	23.9	7.9	9.1	5.6
tamx(m)		6.7	11.6	18.8	23.9	29.5	31.8	30.7	27.4	21.2	12.1	6.1
tamn(m)		-3.7	0.2	6.6	11.8	17.3	19.4	19.1	14.2	8.1	1.4	-3.1
ra(m)	173.	251.	340.	434.	530.	574.	574.	522.	453.	322.	225.	158.
MISSISSIPP month	I - JACKSO jan	את atat feb	(deg)= 3 mar	•		elev (m)=	93.0 tp			(mm)= 170		
prw2(m)	0.516	0.454	0.458	арг 0.364	may 0.539	jun 0.450	jul 0.451	aug	sep	oct	nov	dec
prw1(m)	0.262	0.287	0.258	0.267	0.170	0.205	0.431	0.394 0.246	0.429 0.174	0.396	0.389	0.488
alfg(m)	0.636	0.758	0.670	0.657	0.684	0.673	0.759			0.126	0.217	0.267
betg(m)	15.37	14.55	18.29	21.34	19.68	15.19	13.11	0.623 16.00	0.540	0.551	0.652	0.679
ri(m)	35.8	19.6	24.6	63.5	29.5	39.4	69.8	35.1	21.41	19.02	16.79	18.42
tamx(m)	14.8	16.4	20.1	24.4	28.7	33.0	34.2	33.9	21.6 31.5	26.7	23.9	25.4
tamn(m)	3.3	4.7	7.5	12.1	16.0	20.2	21.4	20.9	18.2	26.5 11.7	19.6	15.2
ra(m)	221.	273.	350.	452.	571.	562.	573.	524.	542.	369.	6.2	3.7
MONTANA -			g)= 45.8			√ (m)=1087		mm)= 34.			263.	219.
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.442	0.500	0.439	0.475	0.544	0.491	0.328	0.376	0.414	0.307	0.347	0.489
prw1(m)	0.198	0.184	0.241	0.233	0.270	0.314	0.177	0.170	0.165	0.160	0.166	0.139
alfg(m)	1.011	1.083	0.845	0.775	U.740	0.728	0.662	0.743	0.753	0.768	0.732	0.139
betg(m)	2.36	2.24	3.30	6.78	6.63	7.37	4.80	5.54	6.12	4.85	4.60	2.82
ri(m)	2.3	2.0	4.1	4.8	11.2	12.4	30.2	11.7	6.1	3.0	7.6	2.5
tamx(m)	0.7	2.2	6.3	14.1	20.1	24.4	31.4	29.6	23.1	16.4	7.2	3.7
tamn(m)	-10.5	-9.3	-4.4	1.4	7.4	12.3	16.0	14.8	8.5	2.9	-3.8	-7.7
ra(m)	150.	261.	372.	462.	563.	622.	624.	526.	432.	289.	172.	138.
MONTANA - 0	GREAT FALL	S alat	(deg)=47	7.48 yrs=	33. e	elev (m)=1		05(mm)=	32.3 tp6	(mm)= 61.		150.
month												
	jan	feb	mer	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.526	0.490	0.478	арг 0.490	may 0.523				•	-	nov	dec 0.481
prw2(m) prw1(m)	0.526 0.210	0.490 0.211	0.478 0.207	0.490 0.245	may 0.523 0.269	jun	jul	aug	sep	oct		dec 0.481 0.178
prw2(m) prw1(m) alfg(m)	0.526 0.210 0.923	0.490 0.211 0.913	0.478 0.207 1.067	0.490 0.245 0.738	may 0.523 0.269 0.675	jun 0.564 0.297 0.692	jul 0 <b>.38</b> 3	aug 0.457	sep 0.428	oct 0.393	nov 0.453	0.481
prw2(m) prw1(m) alfg(m) betg(m)	0.526 0.210 0.923 2.87	0.490 0.211 0.913 2.82	0.478 0.207 1.067 2.46	0.490 0.245 0.738 4.90	may 0.523 0.269 0.675 8.61	jun 0.564 0.297 0.692 9.04	jul 0.383 0.177 0.818 5.11	aug 0.457 0.162	sep 0.428 0.169	oct 0.393 0.129	nov 0.453 0.156	0.481 0.178
prw2(m) prw1(m) alfg(m) betg(m) ri(m)	0.526 0.210 0.923 2.87 4.1	0.490 0.211 0.913 2.82 2.5	0.478 0.207 1.067 2.46 2.3	0.490 0.245 0.738 4.90 4.6	may 0.523 0.269 0.675 8.61 5.6	jun 0.564 0.297 0.692 9.04 25.1	jul 0.383 0.177 0.818	aug 0.457 0.162 0.731	sep 0.428 0.169 0.787	oct 0.393 0.129 0.914	nov 0.453 0.156 0.899	0.481 0.178 1.070
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	0.526 0.210 0.923 2.87 4.1 -0.2	0.490 0.211 0.913 2.82 2.5 1.1	0.478 0.207 1.067 2.46 2.3 5.1	0.490 0.245 0.738 4.90 4.6 12.9	may 0.523 0.269 0.675 8.61 5.6 18.7	jun 0.564 0.297 0.692 9.04 25.1 22.7	jul 0.383 0.177 0.818 5.11 21.8 29.3	aug 0.457 0.162 0.731 5.66	sep 0.428 0.169 0.787 4.67 5.6 21.8	oct 0.393 0.129 0.914 3.84	nov 0.453 0.156 0.899 3.35	0.481 0.178 1.070 2.18
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m)	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8	0.490 0.211 0.913 2.82 2.5 1.1 -10.2	0.478 0.207 1.067 2.46 2.3 5.1	0.490 0.245 0.738 4.90 4.6 12.9	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3	aug 0.457 0.162 0.731 5.66 14.0 27.7	sep 0.428 0.169 0.787 4.67 5.6	oct 0.393 0.129 0.914 3.84 3.8	0.453 0.156 0.899 3.35 3.0	0.481 0.178 1.070 2.18 1.8
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m)	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140.	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232.	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366.	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434.	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528.	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583.	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639.	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532.	sep 0.428 0.169 0.787 4.67 5.6 21.8	oct 0.393 0.129 0.914 3.84 3.8 15.2	nov 0.453 0.156 0.899 3.35 3.0 6.8	0.481 0.178 1.070 2.18 1.8 2.1
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m)	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140.	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)=	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366.	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434.	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (m	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583.	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm)	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532.	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2	0.481 0.178 1.070 2.18 1.8 2.1
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MONTANA - H	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140.	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)= feb	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. (rs= 10.	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (m	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. n)= 787.6 jun	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154.	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112.
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MONTANA - H month prw2(m)	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140. HAVRE jan 0.503	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)= feb 0.481	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55 mar 0.317	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. /rs= 10. apr 0.449	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (may 0.457	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. 1)= 787.6 jun 0.500	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul 0.433	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug 0.424	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep 0.433	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct 0.273	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154.	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112. dec 0.453
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MONTANA - H month prw2(m) prw1(m)	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140. HAVRE jan 0.503 0.189	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)= feb 0.481 0.162	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55 mar 0.317 0.169	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. /rs= 10. apr 0.449 0.183	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (may 0.457 0.237	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. 787.6 jun 0.500 0.308	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul 0.433 0.154	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug 0.424 0.152	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep 0.433 0.163	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct 0.273 0.138	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154. nov 0.394 0.130	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112. dec 0.453 0.144
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MONTANA -   month prw2(m) prw1(m) alfg(m)	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140. HAVRE jan 0.503 0.189 1.170	0.490 0.211 0.913 2.82 - 2.5 1.1 -10.2 232. alat(deg)= feb 0.481 0.162 1.429	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55 mar 0.317 0.169 1.002	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. /rs= 10. apr 0.449 0.183 0.883	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (m may 0.457 0.237	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. 787.6 jun 0.500 0.308 0.712	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul 0.433 0.154 0.781	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug 0.424 0.152 0.669	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep 0.433 0.163 0.752	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct 0.273 0.138 0.765	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154. nov 0.394 0.130 0.940	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112. dec 0.453 0.144 1.144
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) MONTANA - H month prw2(m) prw1(m) alfg(m) betg(m)	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140. HAVRE jan 0.503 0.189 1.170 1.35	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)= feb 0.481 0.162 1.429 1.09	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55 mar 0.317 0.169 1.002	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. /rs= 10. apr 0.449 0.183 0.883 4.55	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (m may 0.457 0.237 0.747 5.74	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. 1)= 787.6 jun 0.500 0.308 0.712 7.42	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul 0.433 0.154 0.781 6.88	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug 0.424 0.152 0.669 6.96	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep 0.433 0.163 0.752 5.23	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct 0.273 0.138 0.765 4.22	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154. nov 0.394 0.130 0.940 2.41	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112. dec 0.453 0.144 1.144
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) MONTANA - H prw2(m) prw1(m) alfg(m) betg(m)	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140. MAVRE jan 0.503 0.189 1.170 1.35 1.0	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)= feb 0.481 0.162 1.429 1.09 2.5	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55 mar 0.317 0.169 1.002 1.63 3.0	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. (rs= 10. apr 0.449 0.183 0.883 4.55 3.0	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (m may 0.457 0.237 0.747 5.74 14.7	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. 1)= 787.6 jun 0.500 0.308 0.712 7.42 10.4	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul 0.433 0.154 0.781 6.88 11.7	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug 0.424 0.152 0.669 6.96 12.7	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep 0.433 0.752 5.23 2.8	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct 0.273 0.138 0.765 4.22 7.6	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154. nov 0.394 0.130 0.940 2.41 1.8	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112. dec 0.453 0.144 1.144 1.45 2.0
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MONTANA - H month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140. HAVRE jan 0.503 0.189 1.170 1.35 1.0 -4.3	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)= feb 0.481 0.162 1.429 1.09 2.5 -2.6	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55 mar 0.317 0.169 1.002 1.63 3.0 3.2	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. (rs= 10. apr 0.449 0.183 0.883 4.55 3.0 13.6	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (may 0.457 0.747 0.747 5.74 14.7 20.3	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. n)= 787.6 jun 0.500 0.308 0.712 7.42 10.4 23.2	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul 0.433 0.154 0.781 6.88 11.7 29.6	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug 0.424 0.152 0.669 6.96 12.7 28.1	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep 0.433 0.163 0.752 5.23 2.8 21.3	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct 0.273 0.138 0.765 4.22 7.6 15.2	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154. nov 0.394 0.130 0.940 2.41 1.8 4.8	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112. dec 0.453 0.144 1.144 1.45 2.0 -0.4
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) ra(m) MONTANA - H month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140. 4AVRE jan 0.503 0.189 1.170 1.35 1.0 -4.3 -15.8	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)= feb 0.481 0.162 1.429 1.09 2.5 -2.6 -14.9	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55 mar 0.317 0.169 1.002 1.63 3.0 3.2 -8.9	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. (rs= 10. apr 0.449 0.183 0.883 4.55 3.0 13.6 -1.3	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (n may 0.457 0.237 0.747 5.74 14.7 20.3 4.8	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. n)= 787.6 jun 0.500 0.308 0.712 7.42 10.4 23.2 9.0	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul 0.433 0.154 0.781 6.88 11.7 29.6 12.6	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug 0.424 0.152 0.669 6.96 12.7 28.1 10.8	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep 0.433 0.163 0.752 5.23 2.8 21.3 4.8	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct 0.273 0.138 0.765 4.22 7.6 15.2 0.2	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154. nov 0.394 0.130 0.940 2.41 1.8 4.8 -7.7	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112. dec 0.453 0.144 1.144 1.45 2.0 -0.4 -11.9
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MONTANA - H month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m)	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140. 4AVRE jan 0.503 0.189 1.170 1.35 1.0 -4.3 -15.8	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)= feb 0.481 0.162 1.429 1.09 2.5 -2.6 -14.9 227.	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55 mar 0.317 0.169 1.002 1.63 3.0 3.2 -8.9 361.	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. (rs= 10. apr 0.449 0.183 0.883 4.55 3.0 13.6 -1.3 429.	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (m may 0.457 0.237 0.747 5.74 14.7 20.3 4.8 523.	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. n)= 787.6 jun 0.500 0.308 0.712 7.42 10.4 23.2 9.0 578.	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul 0.433 0.154 0.781 6.88 11.7 29.6 12.6 634.	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug 0.424 0.152 0.669 6.96 12.7 28.1 10.8 527.	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep 0.433 0.163 0.752 5.23 2.8 21.3 4.8 402.	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct 0.273 0.138 0.765 4.22 7.6 15.2 0.2 259.	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154. nov 0.394 0.130 0.940 2.41 1.8 4.8	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112. dec 0.453 0.144 1.144 1.45 2.0 -0.4
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MONTANA - H prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) month	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140. HAVRE jan 0.503 0.189 1.170 1.35 1.0 -4.3 -15.8 135.	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)= feb 0.481 0.162 1.429 1.09 2.5 -2.6 -14.9 227. alat(deg):	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55 mar 0.317 0.169 1.002 1.63 3.0 3.2 -8.9 361. = 46.60	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. (rs= 10. apr 0.449 0.183 0.883 4.55 3.0 13.6 -1.3 429. yrs= 30.	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (m may 0.457 0.237 0.747 5.74 14.7 20.3 4.8 523. elev (	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. 1)= 787.6 jun 0.500 0.308 0.712 7.42 10.4 23.2 9.0 578. m)=1166.8	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul 0.433 0.154 0.781 6.88 11.7 29.6 12.6 634. tp05(mm)	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug 0.424 0.152 0.669 6.96 12.7 28.1 10.8 527. )= 30.5	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep 0.433 0.163 0.752 5.23 2.8 21.3 4.8 402. tp6(mm)=	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct 0.273 0.138 0.765 4.22 7.6 15.2 0.2 259.	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154. nov 0.394 0.130 0.940 2.41 1.8 4.8 -7.7 149.	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112. dec 0.453 0.144 1.145 2.0 -0.4 -11.9
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MONTANA - H month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m)	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140. 4AVRE jan 0.503 0.189 1.170 1.35 1.0 -4.3 -15.8	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)= feb 0.481 0.162 1.429 1.09 2.5 -2.6 -14.9 227. alat(deg)=	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55 mar 0.317 0.169 1.002 1.63 3.0 3.2 -8.9 361. = 46.60 mar	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. (rs= 10. apr 0.449 0.183 0.883 4.55 3.0 13.6 -1.3 429. yrs= 30. apr	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (may 0.457 0.237 0.747 5.74 14.7 20.3 4.8 523. elev (may	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. n)= 787.6 jun 0.500 0.308 0.712 7.42 10.4 23.2 9.0 578. m)=1166.8 jun	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul 0.433 0.154 0.781 6.88 11.7 29.6 12.6 634. tp05(mm)	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug 0.424 0.152 0.669 6.96 12.7 28.1 10.8 527. )= 30.5 aug	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep 0.433 0.163 0.752 5.23 2.8 21.3 4.8 402. tp6(mm)= sep	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct 0.273 0.138 0.765 4.22 7.6 15.2 0.2 259. 57.1	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154. nov 0.394 0.130 0.940 2.41 1.8 4.8 -7.7 149.	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112. dec 0.453 0.144 1.144 1.45 2.0 -0.4 -11.9 107.
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MONTANA - h month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) MONTANA - h month	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140. HAVRE jan 0.503 0.189 1.170 1.35 1.0 -4.3 -15.8 135. HELENA jan 0.429	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)= feb 0.481 0.162 1.429 1.09 2.5 -2.6 -14.9 227. alat(deg)= feb 0.328	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55 mar 0.317 0.169 1.002 1.63 3.0 3.2 -8.9 361. = 46.60 mar 0.421	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. /rs= 10. apr 0.449 0.183 0.883 4.55 3.0 13.6 -1.3 429. yrs= 30. apr	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (may 0.457 0.237 0.747 5.74 14.7 20.3 4.8 523. elev (may 0.498	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. 787.6 jun 0.500 0.308 0.712 7.42 10.4 23.2 9.0 578. m)=1166.8 jun 0.573	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul 0.433 0.154 0.781 6.88 11.7 29.6 12.6 634. tp05(mm) jul 0.381	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug 0.424 0.152 0.669 6.96 12.7 28.1 10.8 527. )= 30.5 aug	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep 0.433 0.752 5.23 2.8 21.3 4.8 402. tp6(mm)= sep 0.446	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct 0.273 0.138 0.765 4.22 7.6 15.2 0.2 259. 57.1 oct 0.331	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154. nov 0.394 0.130 0.940 2.41 1.8 4.8 -7.7 149. nov	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112. dec 0.453 0.144 1.144 1.45 2.0 -0.4 -11.9 107. dec 0.481
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MONTANA - H month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) month	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140. HAVRE jan 0.503 0.189 1.170 1.35 1.0 -4.3 -15.8 135. IELENA	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)= feb 0.481 0.162 1.429 1.09 2.5 -2.6 -14.9 227. alat(deg)= feb 0.328 0.184	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55 mar 0.317 0.169 1.002 1.63 3.0 3.2 -8.9 361. = 46.60 mar 0.421 0.200	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. /rs= 10. apr 0.449 0.183 0.883 4.55 3.0 13.6 -1.3 429. yrs= 30. apr 0.373 0.249	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (may 0.457 0.747 5.74 14.7 20.3 4.8 523. elev (may 0.498 0.260	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. 1)= 787.6 jun 0.500 0.308 0.712 7.42 10.4 23.2 9.0 578. m)=1166.8 jun 0.573 0.266	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul 0.433 0.154 0.781 6.88 11.7 29.6 12.6 634. tp05(nm) jul 0.381 0.180	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug 0.424 0.152 0.669 6.96 12.7 28.1 10.8 527. )= 30.5 aug	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep 0.433 0.752 5.23 2.8 21.3 4.8 402. tp6(mm)= sep 0.446 0.147	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct 0.273 0.138 0.765 4.22 7.6 15.2 0.2 259. 57.1 oct 0.331 0.159	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154. nov 0.394 0.130 0.940 2.41 1.8 4.8 -7.7 149. nov 0.390 0.185	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112. dec 0.453 0.144 1.144 1.45 2.0 -0.4 -11.9 107. dec 0.481 0.183
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MONTANA -   month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) month prw2(m) prw1(m)	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140. HAVRE jan 0.503 0.189 1.170 1.35 1.0 -4.3 -15.8 135. IELENA jan 0.429 0.215	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)= feb 0.481 0.162 1.429 1.09 2.5 -2.6 -14.9 227. alat(deg)= feb 0.328 0.184 0.982	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55 mar 0.317 0.169 1.002 1.63 3.0 3.2 -8.9 361. = 46.60 mar 0.421 0.200 0.843	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. (rs= 10. apr 0.449 0.183 0.883 4.55 3.0 13.6 -1.3 429. yrs= 30. apr 0.373 0.249 0.805	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (may 0.457 0.747 5.74 14.7 20.3 4.8 523. elev (may 0.498 0.260 0.726	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. 1)= 787.6 jun 0.500 0.308 0.712 7.42 10.4 23.2 9.0 578. m)=1166.8 jun 0.573 0.266 0.891	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul 0.433 0.154 0.781 6.88 11.7 29.6 12.6 634. tp05(mm) jul 0.381 0.180 0.883	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug 0.424 0.152 0.669 6.96 12.7 28.1 10.8 527. )= 30.5 aug 0.361 0.207 0.804	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep 0.433 0.163 0.752 5.23 2.8 21.3 4.8 402. tp6(mm)= sep 0.446 0.147 0.844	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct 0.273 0.138 0.765 4.22 7.6 15.2 0.2 259. 57.1 oct 0.331 0.159 0.802	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154. nov 0.394 0.130 0.940 2.41 1.8 4.8 -7.7 149. nov 0.390 0.185 0.866	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112. dec 0.453 0.144 1.45 2.0 -0.4 -11.9 107. dec 0.481 0.183 1.116
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) MONTANA - H month prw2(m) prw1(m) alfg(m) tamx(m) tamx(m) tamn(m) ra(m) MONTANA - H month	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140. HAVRE jan 0.503 0.189 1.170 1.35 1.0 -4.3 -15.8 135. IELENA jan 0.429 0.215 1.114	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)= feb 0.481 0.162 1.429 1.09 2.5 -2.6 -14.9 227. alat(deg)= feb 0.328 0.184 0.982 1.80	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55 mar 0.317 0.169 1.002 1.63 3.0 3.2 -8.9 361. = 46.60 mar 0.421 0.200 0.843 2.69	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. /rs= 10. apr 0.449 0.183 0.883 4.55 3.0 13.6 -1.3 429. yrs= 30. apr 0.373 0.249 0.805 3.63	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (may 0.457 0.747 5.74 14.7 20.3 4.8 523. elev (may 0.459 0.260 0.726 5.89	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. n)= 787.6 jun 0.500 0.308 0.712 7.42 10.4 23.2 9.0 578. m)=1166.8 jun 0.573 0.266 0.891 5.41	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul 0.433 0.154 0.781 6.88 11.7 29.6 12.6 634. tp05(mm) jul 0.381 0.381 0.883 3.86	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug 0.424 0.152 0.669 6.96 12.7 28.1 10.8 527. )= 30.5 aug 0.361 0.207 0.804 4.44	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep 0.433 0.163 0.752 5.23 2.8 21.3 4.8 402. tp6(mm)= sep 0.446 0.147 0.844 3.61	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct 0.273 0.138 0.765 4.22 7.6 15.2 0.2 259. 57.1 oct 0.331 0.159 0.802 3.40	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154. nov 0.394 0.130 0.940 2.41 1.8 4.8 -7.7 149. nov 0.390 0.185 0.866 2.41	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112. dec 0.453 0.144 1.145 2.0 -0.4 -11.9 107. dec 0.481 0.183 1.116
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) ra(m) MONTANA - H month prw2(m) prw1(m) alfg(m) tamx(m) tamx(m) tamn(m) ra(m) prw1(m) alfg(m) betg(m) betg(m) conth prw2(m)	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140. MAVRE jan 0.503 0.189 1.170 1.35 1.0 -4.3 -15.8 135. MELENA jan 0.429 0.215 1.114 1.60	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)= feb 0.481 0.162 1.429 1.09 2.5 -2.6 -14.9 227. alat(deg)= feb 0.328 0.184 0.982	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55 mar 0.317 0.169 1.002 1.63 3.0 3.2 -8.9 361. = 46.60 mar 0.421 0.200 0.843	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. (rs= 10. apr 0.449 0.183 0.883 4.55 3.0 13.6 -1.3 429. yrs= 30. apr 0.373 0.249 0.805	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (may 0.457 0.747 5.74 14.7 20.3 4.8 523. elev (may 0.498 0.260 0.726 5.89 4.8	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. n)= 787.6 jun 0.500 0.308 0.712 7.42 10.4 23.2 9.0 578. m)=1166.8 jun 0.573 0.266 0.891 5.41 30.7	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul 0.433 0.154 0.781 6.88 11.7 29.6 12.6 634. tp05(mm) jul 0.381 0.381 0.883 3.86 16.0	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug 0.424 0.152 0.669 6.96 12.7 28.1 10.8 527. )= 30.5 aug 0.361 0.207 0.804 4.44 10.7	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep 0.433 0.752 5.23 2.8 21.3 4.8 402. tp6(mm)= sep 0.446 0.147 0.844 3.61 6.3	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct 0.273 0.138 0.765 4.22 7.6 15.2 0.2 259. 57.1 oct 0.331 0.159 0.802 3.40 1.8	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154. nov 0.394 0.130 0.940 2.41 1.8 4.8 -7.7 149. nov 0.390 0.185 0.866 2.41 1.5	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112. dec 0.453 0.144 1.45 2.0 -0.4 -11.9 107. dec 0.481 0.183 1.116 1.73 2.0
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) MONTANA - H month prw2(m) prw1(m) alfg(m) tamx(m) tamx(m) tamn(m) ra(m) MONTANA - H month prw2(m) prw1(m) alfg(m) alfg(m)	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140. MAVRE jan 0.503 0.189 1.170 1.35 1.0 -4.3 -15.8 135. MELENA jan 0.429 0.215 1.114 1.60 1.8	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)= feb 0.481 0.162 1.429 1.09 2.5 -2.6 -14.9 227. alat(deg)= feb 0.328 0.184 0.982 1.80 2.0	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55 mar 0.317 0.169 1.002 1.63 3.0 3.2 -8.9 361. = 46.60 mar 0.421 0.200 0.843 2.69 2.0	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. (rs= 10. apr 0.449 0.183 0.883 4.55 3.0 13.6 -1.3 429. yrs= 30. apr 0.373 0.249 0.805 3.63 3.6	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (may 0.457 0.747 14.7 20.3 4.8 523. elev (may 0.498 0.260 0.726 5.89 4.8	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. 1)= 787.6 jun 0.500 0.308 0.712 7.42 10.4 23.2 9.0 578. m)=1166.8 jun 0.573 0.266 0.891 5.41 30.7 22.4	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul 0.433 0.154 0.781 6.88 11.7 29.6 12.6 634. tp05(mm) jul 0.381 0.180 0.883 3.86 16.0 29.1	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug 0.424 0.152 0.669 6.96 12.7 28.1 10.8 527. )= 30.5 aug 0.361 0.207 0.804 4.44 10.7 27.9	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep 0.433 0.752 5.23 2.8 21.3 4.8 402. tp6(mm)= sep 0.446 0.147 0.844 3.61 6.3 21.6	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct 0.273 0.138 0.765 4.22 7.6 15.2 0.2 259. 57.1 oct 0.331 0.159 0.802 3.40 1.8 14.9	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154. nov 0.394 0.130 0.940 2.41 1.8 4.8 -7.7 149. nov 0.390 0.185 0.866 2.41 1.5 5.8	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112. dec 0.453 0.144 1.145 2.0 -0.4 -11.9 107. dec 0.481 0.183 1.116 1.73 2.0 1.2
prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) MONTANA - H month prw2(m) prw1(m) alfg(m) tamx(m) tamx(m) tamn(m) ra(m) MONTANA - H month prw2(m) prw1(m) alfg(m) betg(m) ri(m) alfg(m) betg(m)	0.526 0.210 0.923 2.87 4.1 -0.2 -10.8 140. HAVRE jan 0.503 0.189 1.170 1.35 1.00 -4.3 -15.8 135. HELENA jan 0.429 0.215 1.114 1.60 1.8 -1.8	0.490 0.211 0.913 2.82 2.5 1.1 -10.2 232. alat(deg)= feb 0.481 0.162 1.429 1.09 2.5 -2.6 -14.9 227. alat(deg): feb 0.328 0.184 0.982 1.80 2.0 0.9	0.478 0.207 1.067 2.46 2.3 5.1 -6.6 366. 48.55 mar 0.317 0.169 1.002 1.63 3.0 3.2 -8.9 361. = 46.60 mar 0.421 0.200 0.843 2.69 2.0 5.8	0.490 0.245 0.738 4.90 4.6 12.9 -0.1 434. (rs= 10. apr 0.449 0.183 0.883 4.55 3.0 13.6 -1.3 429. yrs= 30. apr 0.373 0.249 0.805 3.63 3.6 13.4	may 0.523 0.269 0.675 8.61 5.6 18.7 4.6 528. elev (may 0.457 0.747 5.74 14.7 20.3 4.8 523. elev (may 0.498 0.260 0.726 5.89 4.8	jun 0.564 0.297 0.692 9.04 25.1 22.7 8.3 583. n)= 787.6 jun 0.500 0.308 0.712 7.42 10.4 23.2 9.0 578. m)=1166.8 jun 0.573 0.266 0.891 5.41 30.7	jul 0.383 0.177 0.818 5.11 21.8 29.3 12.3 639. tp05(mm) jul 0.433 0.154 0.781 6.88 11.7 29.6 12.6 634. tp05(mm) jul 0.381 0.381 0.883 3.86 16.0	aug 0.457 0.162 0.731 5.66 14.0 27.7 11.0 532. = 32.3 aug 0.424 0.152 0.669 6.96 12.7 28.1 10.8 527. )= 30.5 aug 0.361 0.207 0.804 4.44 10.7	sep 0.428 0.169 0.787 4.67 5.6 21.8 6.4 407. tp6(mm)= sep 0.433 0.752 5.23 2.8 21.3 4.8 402. tp6(mm)= sep 0.446 0.147 0.844 3.61 6.3	oct 0.393 0.129 0.914 3.84 3.8 15.2 2.0 264. 67.3 oct 0.273 0.138 0.765 4.22 7.6 15.2 0.2 259. 57.1 oct 0.331 0.159 0.802 3.40 1.8	nov 0.453 0.156 0.899 3.35 3.0 6.8 -4.2 154. nov 0.394 0.130 0.940 2.41 1.8 4.8 -7.7 149. nov 0.390 0.185 0.866 2.41 1.5	0.481 0.178 1.070 2.18 1.8 2.1 -7.3 112. dec 0.453 0.144 1.45 2.0 -0.4 -11.9 107. dec 0.481 0.183 1.116 1.73 2.0

MONTAMA - KALISPELL   Salat(deg)= 68.20   Yrs= 21.   elev (m)= 903.7   tp05(mm)= 22.1   tp6(mm)= 54.6   tp0   pr14(m)   0.655   0.557   0.539   0.429   0.518   0.563   0.310   0.510   0.525   0.567   0.525   0.570   1.052   0.570   1.05													
pru2(m)   0.658   0.567   0.539   0.429   0.518   0.563   0.510   0.525   0.500   0.525   0.501     alfg(m)   0.988   1.027   1.055   0.834   0.862   0.807   0.829   0.798   0.866   0.968   0.857   0.921     alfg(m)   0.998   1.027   1.055   0.834   0.862   0.807   0.829   0.798   0.866   0.968   0.857   0.921     betg(m)   2.54   2.06   1.75   3.43   4.70   6.30   4.72   5.56   4.14   2.25   2.70     ri(m)   2.0   1.8   3.6   4.1   7.6   14.5   8.6   30.5   10.2   2.5   2.0   2.5     temac(m)   -2.4   1.1   5.7   3.6   19.1   22.5   28.7   27.3   21.2   2.5   2.0   2.5     temac(m)   -1.13   -2.7   3.61   4.6   53.5   578   8.47   7.2   4.0   -0.2   -5.2   -7.4     temac(m)   -1.13   -2.7   3.61   4.6   53.5   578   8.17   7.2   4.0   -0.2   -5.2   -7.4     MONTANIES CITY   alf telegology   4.6   0.783   33.   elev (m) = 80.13   1.055 (mm) = 43.5   9.6   mm)   1.07     MONTANIES CITY   alf telegology   4.6   0.783   33.   elev (m) = 80.13   1.055 (mm) = 43.5   9.6   mm)   1.07     pru2(m)   0.444   0.467   0.355   0.468   0.648   0.780   0.309   0.230   0.166   0.146   0.135   0.159   0.168     alfg(m)   0.122   0.193   0.200   0.213   0.262   0.309   0.230   0.166   0.146   0.135   0.159   0.188     alfg(m)   1.122   0.198   0.988   0.869   0.741   0.744   0.666   0.669   0.797   0.488   0.861   1.141     betg(m)   1.42   1.96   2.13   4.62   6.73   8.79   7.47   6.15   4.72   3.10   2.90   1.65     remm(m)   -14,7   -12.9   7.0   0.4   6.7   11.4   1.5   1.5   1.4     betg(m)   1.42   0.96   2.13   6.64   6.7   11.4   1.5   1.5   6.64   6.7   1.5     remm(m)   -14,7   -12.9   7.0   0.4   6.7   11.4   1.5   1.5   1.4   1.5   1.4     betg(m)   0.00   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0     remm(m)   -14,7   -12.9   7.0   0.4   6.7   11.4   5.8   6.3   6.4   0.5   0.668   0.669   0.757   0.656   0.668   0.669   0.757   0.668   0.669   0.757   0.668   0.669   0.757   0.668   0.669   0.757   0.668   0.669   0.757   0.668   0.669   0.757   0.668   0.669   0.757   0.668   0.669   0.757   0.	month			-									
prixt(m)   0.383   0.309   0.249   0.250   0.264   0.310   0.145   0.164   0.197   0.217   0.322   0.431     atfg(m)   2.96   1.027   1.055   0.834   0.862   0.897   0.829   0.798   0.866   0.857   0.921     betg(m)   2.54   2.06   1.75   3.43   4.70   6.30   4.72   5.56   4.14   2.90   3.35   2.77     ri(m)   2.0   1.8   3.6   4.1   7.6   14.5   8.6   30.5   10.2   2.5   2.0   2.5     tamx(m)   -2.4   1.1   5.7   13.6   19.1   22.5   28.7   27.3   21.2   13.3   4.1   -0.1     tamx(m)   -11.1   -9.5   -5.9   -0.6   3.3   7.1   8.7   7.2   4.0   -2.2   5.2   -7.4     tamx(m)   -11.1   -9.5   -5.9   -0.6   3.3   7.1   8.7   7.2   4.0   -2.2   5.2   -7.4     ref(m)   151   227   361   429   523   578   6.34   527   402   259   149   107     month   3m   640   mar									_				
atfg(m)   0.998   1.027   1.055   0.834   0.862   0.807   0.829   0.798   0.866   0.968   0.857   0.921     betg(m)   2.54   2.06   1.75   3.43   4.70   6.30   4.72   5.56   4.14   2.90   3.35   2.79     ri(m)   2.0   1.8   3.6   4.1   7.6   14.5   8.6   30.5   10.2   2.5   2.00   2.5     tamx(m)   -2.4   1.1   5.7   13.6   19.1   22.5   28.7   27.3   21.2   2.5   2.5   2.00     tamx(m)   -11.1   -9.5   -5.9   -0.6   3.3   7.1   8.7   7.2   4.0   -0.2   -5.2   -7.4     temm(m)   -11.1   -9.5   -5.9   -0.6   3.3   7.1   8.7   7.2   4.0   -0.2   -5.2   -7.4     HONTANA - MILES CITY   atat(deg)= 46.40   yrs= 33   elev (m)= 801.3   typ5 (mm)= 43.9   typ6 (m)= 81.3     month   jan   feb   mar   apr   apr   may   jun   jul   aug   sep   cot   nov   dec   d													
betg(m) 2,54 2,06 1.75 3.43 4.70 6.30 4.72 5.56 4.14 2.90 3.35 2.79   ri(m) 2.0 1.8 3.6 4.1 7.6 14.5 8.6 30.5 10.2 1.5 2.5 2.0 2.5   teamx(m) -2.4 1.1 5.7 13.6 19.1 22.5 28.7 27.3 21.2 13.3 4.1 -0.1   teamx(m) -11.1 -9.5 -5.9 -0.6 3.3 7.1 8.7 7.2 4.0 -0.2 5.2 -2.5 2.0   reakx(m) -11.5 2.27. 361. 429. 525. 578. 68.7 27.3 21.2 13.3 4.1 -0.1   reakmonth   Jan   feb   mar   apr   may   Jun   Jul   aug   sep   oct   nov   dec   mar   apr   may   Jun   Jul   aug   sep   oct   nov   dec   mar   apr   may   Jun   Jul   aug   sep   oct   nov   dec   mar   apr   may   Jun   Jul   aug   sep   oct   nov   dec   mark(m) -2.6 -0.1 5.7 14.8 21.4 25.8 32.3 30.8 24.0 16.9 0.1													
Fri(m)   2.0   1.8   3.6   4.1   7.6   14.5   8.6   30.5   10.2   2.5   2.0   2.5   Examx(m)   -2.4   1.1   5.7   73.6   19.1   22.5   28.7   27.3   21.2   3.3   4.1   -0.4   Examx(m)   -11.1   -9.5   -5.9   -0.6   3.3   7.1   8.7   7.2   4.0   -0.2   -5.2   -7.4   -7.6   13.5   -7.8   -7.8   -7.2   4.0   -0.2   -5.2   -7.4   -7.6   -7.8   -7.8   -7.2   -7.4   -7.6   -7.2   -7.4   -7.6   -7.2   -7.4   -7.2   -7.2   -7.2   -7.4   -7.2   -7.2   -7.4   -7.2   -7.2   -7.2   -7.4   -7.2   -													
temm(m) -2.4, 1.1 5.7 13.6 19.1 22.5 28.7 27.3 21.2 13.3 4.1 -0.4 temm(m) 135. 227. 361. 429. 525. 578. 634. 527. 402. 259. 149. 107. MONTAMA - MILES CITY alt (429. 525. 578. 634. 527. 402. 259. 149. 107. MONTAMA - MILES CITY alt (429. 525. 578. 634. 527. 402. 259. 149. 107. MONTAMA - MILES CITY alt (429. 525. 578. 634. 527. 402. 259. 149. 107. MONTAMA - MILES CITY alt (429. 526. 578. 634. 527. 402. 259. 149. 107. MONTAMA - MILES CITY alt (429. 526. 578. 634. 527. 402. 259. 149. 107. MONTAMA - MILES CITY alt (429. 526. 578. 578. 534. 527. 402. 259. 149. 107. MONTAMA - MILES CITY alt (429. 526. 578. 578. 534. 527. 402. 259. 149. 107. MONTAMA - MILES CITY alt (429. 526. 528. 578. 534. 527. 402. 259. 149. 107. MONTAMA - MILES CITY alt (429. 528. 528. 528. 528. 528. 528. 528. 528													
Tannorm   Tan													
Notified													
MONTANA - MILES CITY													
month   jan   feb   mar   apr   may   jun   jul   aug   sep   oct   nov   dec   dec   pru2(m)   0.444   0.467   0.355   0.488   0.507   0.491   0.344   0.386   0.408   0.355   0.458   0.507   0.491   0.344   0.386   0.408   0.355   0.459   0.168   alfq(m)   1.122   0.193   0.200   0.213   0.262   0.309   0.230   0.166   0.146   0.135   0.159   0.168   alfq(m)   1.122   0.988   0.988   0.869   0.741   0.744   0.666   0.699   0.797   0.848   0.861   1.141   betg(m)   1.42   1.96   2.13   4.62   6.73   8.79   7.47   6.15   4.72   3.10   2.90   1.65   1.61   0.00													107.
PPNZ(m)													dec
print (m)   0.212   0.193   0.200   0.213   0.262   0.309   0.230   0.164   0.135   0.159   0.168   alf g(m)   1.122   0.988   0.989   0.989   0.869   0.741   0.744   0.666   0.669   0.797   0.846   0.861   1.112   0.061   0.100   0.00									_				
alfg(m)		0.212		0.200									
betg(m)   1,42   1,96   2,13   4,62   6,73   8,79   7,47   6,15   4,72   3,10   2,90   1,65     ri(m)   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0     tamm(m)   -2,6   -0.1   5,7   14.8   21.4   25.8   32.3   30.8   24.0   16.9   6.4   0.9     ram(m)   -14,7   -7.29   -7.0   0.4   6.7   11.4   15.8   14.3   30.8   24.0   16.9   6.4   0.9     rem(m)   140,   232,   366,   434,   528,   583,   639,   532,   407,   264,   154,   112,     NEBRASKA - GRAND ISLAND   alst(deg)= 40,97   yrs= 27,   elev (m)= 5611,   tpo5(mm)= 123.2     month   feb mar apr map   may jun   jul aug sep oct   nov permit (m)   0.108   0.181   0.178   0.204   0.278   0.259   0.257   0.221   0.188   0.113   0.109   0.120     alfg(m)   0.841   0.795   0.745   0.645   0.724   0.745   0.668   0.647   0.650   0.885   0.780   0.676     betg(m)   1.1   3, 8, 9.6   17.4   23.1   29.0   33.8   32.0   26.7   19.7   9.7   3.1     tamm(m)   -11.2   -8.6   -5.4   3.6   9.3   15.0   18.3   17.1   12.0   4.7   -5.4   -8.7     ramm   0.126   0.151   0.167   0.179   0.255   5.90, 273   0.257   0.370   0.300   0.250     pra/2(m)   0.292   0.377   0.344   0.448   0.498   0.458   0.377   0.314   0.435   0.353   0.383   0.300   0.250   0.287     ramm   0.126   0.151   0.167   0.179   0.255   0.273   0.270   0.227   0.326   0.365   0.351   0.300   0.204     ramm(m)   2.7   5.3   9.7   16.6   22.1   499   2.753   489,   499   0.164   0.112	•	1.122	0.988	0.958	0.869	0.741	0.744	0.666	0.699				
tamx(m) -1-2.6 -0.1 5.7 14.8 21.4 25.8 32.3 30.8 24.0 16.9 6.4 0.9 ramm) -14.7 -12.9 -7.0 0.4 6.7 11.4 15.8 14.3 8.2 1.9 -5.7 -10.7 ra(m) 140. 232. 366. 434. 528. 583. 639. 532. 407. 264. 154. 112. MEBRASKA - GRAND ISLAND alsat(deg)= 40.97 yrs= 27. elev (m)= 5.51.1 tpoS(m)= 68.6 tpoS(m)= 123.2 ramm) -1.0 0.409 0.429 0.429 0.433 0.514 0.474 0.500 0.533 0.383 0.441 0.308 0.250 0.287 pruI(m) 0.409 0.409 0.429 0.443 0.514 0.474 0.500 0.553 0.353 0.461 0.308 0.250 0.287 pruI(m) 0.108 0.181 0.178 0.204 0.278 0.259 0.271 0.221 0.188 0.113 0.109 0.120 alfg(m) 0.841 0.795 0.745 0.645 0.724 0.745 0.668 0.647 0.650 0.885 0.780 0.676 betg(m) 3.05 3.9.4 5.69 11.20 12.14 13.87 12.09 12.73 11.96 6.68 4.04 5.13 r1(m) 1.3 7.4 6.1 30.5 31.0 19.3 13.7 31.0 76.2 8.1 7.6 2.0 tamm(m) -11.2 -8.6 -3.4 3.6 9.3 15.0 19.3 13.7 31.0 76.2 8.1 7.6 2.0 tamm(m) -11.2 -8.6 -3.4 3.6 9.3 15.0 19.3 13.7 12.0 4.7 -3.4 -8.7 ra(m) 153. 264. 353 264. 354 27.8 421. 499. 549. 575. 489. 401. 300. 204. 164. month jan feb mar apr may jun jul aug sep oct nov pruI(m) 0.126 0.151 0.167 0.179 0.255 0.273 0.270 0.227 0.154 0.117 0.108 0.118 0		1.42	1.96	2.13	4.62	6.73		7.47	6.15	4.72	3.10		
tamm(m)	ri(m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
rs(m)   140.   232.   366.   434.   528.   538.   639.   532.   407.   264.   154.   112.     NEBRASKA - GRAND ISLAND	tamx(m)	-2.6	-0.1	5.7	14.8	21.4	25.8	32.3	30.8	24.0	16.9	6.4	0.9
NEBRASKA - GRAND ISLAND   Stack   degp = 40.97   yrs= 27,   elev (m) = 561.1   tp05(mm) = 68.6   tp6(mm) = 123.2   more mar apr may jun jul aug sep oct nov decorpinal   nov more mar apr may jun jul   nov more mar apr nov jun   nov	tamn(m)									8.2	1.9	-5.7	
month   jan   feb   mar   apr   may   jun   jun   jun   aug   sep   oct   nov   dec   pru2(m)   0.409   0.422   0.413   0.1478   0.204   0.278   0.259   0.271   0.221   0.188   0.113   0.109   0.120   0.141   0.795   0.745   0.645   0.724   0.745   0.645   0.724   0.745   0.668   0.647   0.650   0.885   0.780   0.676   0.658   0.780   0.676   0.658   0.780   0.676   0.658   0.780   0.676   0.681   0.113   0.109   0.120   0.120   0.120   0.120   0.130   0.													112.
PPHZ(m)   0.409   0.422   0.413   0.514   0.474   0.500   0.355   0.383   0.441   0.308   0.250   0.281						rs= 27.				68.6 t	o6(mm)= 12	3.2	
Pirel (m)   0.108									_				
hetg(m)   0.841   0.795   0.745   0.645   0.724   0.745   0.668   0.647   0.650   0.885   0.780   0.676     hetg(m)   3.05   3.94   5.69   11.20   12.14   13.87   12.09   12.73   11.96   6.68   4.04   5.13     ri(m)   1.3   7.4   6.1   30.5   31.0   19.3   13.7   31.0   76.2   8.1   7.6   2.0     tamx(m)   1.1   3.8   9.6   17.4   23.1   29.0   33.8   32.0   26.7   19.7   9.7   3.1     tamn(m)   -11.2   -8.6   -3.4   3.6   9.3   15.0   18.3   17.1   12.0   4.7   -3.4   -8.7     ra(m)   193   264   355   421   499   549   573   489   401   300   204   164     NEBRASKA - NORTH PLATTE   alat(deg) = 41.13   yrs   6.   elev (m) = 847.0   tp05(mm) = 66.0   tp6(mm) = 111.8     month   jan   feb   mar   apr   may   jun   jul   aug   sep   oct   nov   dec     prw1(m)   0.126   0.151   0.167   0.179   0.255   0.273   0.270   0.227   0.270   0.251   0.270     alfg(m)   0.845   0.750   0.731   0.683   0.700   0.635   0.769   0.676   0.705   0.704   0.813   0.785     betg(m)   2.39   3.48   4.83   8.71   11.84   16.26   10.19   9.86   10.36   7.16   3.33   3.20     ri(m)   1.5   1.0   23.4   14.7   36.6   19.6   52.8   30.5   27.4   3.6   5.1   2.0     tamx(m)   2.7   5.3   9.7   16.6   22.1   27.5   31.9   30.8   25.7   19.4   10.3   4.2     tamm(m)   -11.6   -9.0   -4.8   1.9   7.8   13.3   16.8   15.4   9.6   2.5   -4.9   -9.5     ra(m)   193   264   355   421   499   549   573   489   401   300   204   164     NEBRASKA - SCOTISBLUFF   alat(deg) = 41.87   yrs= 15   elev (m)=1204.0   tp05(mm)=50.8   tp6(mm)=90.2     month   jan   feb   mar   apr   may   jun   jul   aug   sep   oct   nov   dec     prw1(m)   0.122   0.336   0.396   0.390   0.474   0.555   0.529   0.335   0.325   0.466   0.363   0.286   0.354     prw1(m)   0.122   0.133   0.192   0.189   0.269   0.312   0.240   0.171   0.147   0.112   0.129     altg(m)   0.998   0.877   0.858   0.715   0.699   0.676   0.789   0.600   0.720   0.868     opyn													
betg(m)   3.05   3.94   5.69   11.20   12.14   13.87   12.09   12.73   11.96   6.68   4.04   5.13   ri(m)   1.3   7.4   6.1   30.5   31.0   19.3   13.7   31.0   76.2   8.1   7.6   2.0   tamx(m)   1.1   3.8   9.6   17.4   23.1   29.0   33.8   32.0   26.7   19.7   9.7   3.1   tamx(m)   11.2   3.6   -3.4   3.6   9.3   15.0   18.3   17.1   12.0   4.7   -3.4   -8.7   ra(m)   193.   264.   355.   421.   499.   549.   573.   489.   401.   300.   204.   164.   18.8   17.1   12.0   4.7   -3.4   -8.7   48.9   401.   300.   204.   164.   18.8   17.1   19.0   4.7   -3.4   -8.7   48.9   401.   300.   204.   164.   18.8   19.8													
Time													
tamx(m)													
tamm(m) -11.2 -8.6 -3.4 3.6 9.3 15.0 18.3 17.1 12.0 4.7 -3.4 -8.7 ra(m) 193. 264. 355. 421. 499. 559. 573. 489. 401. 300. 204. 164.   NEBRASKA - NORTH PLATTE													
NEBRASKA													
NEBRASKA - NORTH PLATTE													
month jan feb mar apr may jun jul aug sep oct nov dec prω2(m) 0.292 0.377 0.344 0.448 0.498 0.453 0.377 0.314 0.435 0.351 0.309 0.268 prω1(m) 0.126 0.151 0.167 0.179 0.255 0.273 0.270 0.227 0.154 0.117 0.108 0.112 alfg(m) 0.845 0.750 0.751 0.683 0.700 0.635 0.769 0.676 0.705 0.704 0.813 0.785 betg(m) 2.39 3.48 4.83 8.71 11.84 16.26 10.19 9.86 10.36 7.16 3.33 3.20 ri(m) 1.5 1.0 23.4 14.7 36.6 19.6 52.8 30.5 27.4 3.6 5.1 2.0 tamx(m) 2.7 5.3 9.7 16.6 22.1 27.5 31.9 30.8 25.7 19.4 10.3 4.2 tam(m) 193. 264. 355. 421. 499. 549. 573. 489. 401. 300. 204. 164. NEBRASKA - SCOTTSBLUFF alat(deg)= 41.87 yrs= 15. elev (m)=1204.0 tp05(mm)= 50.8 tp6(mm)= 90.2 tam(m) 0.326 0.396 0.390 0.474 0.555 0.529 0.335 0.323 0.446 0.363 0.286 0.354 prω1(m) 0.122 0.133 0.192 0.189 0.269 0.312 0.240 0.171 0.147 0.112 0.112 0.112 alfg(m) 0.998 0.998 0.877 0.858 0.715 0.699 0.676 0.789 0.600 0.720 0.868 0.998 betg(m) 1.75 1.65 2.90 4.98 8.71 10.11 8.48 4.67 7.09 5.92 2.54 2.13 ri(m) 1.55 1.8 6.3 4.8 13.0 30.5 54.1.1 26.9 6.3 3.3 52.1 2.3 tamx(m) 2.6 5.4 9.3 15.9 21.2 27.2 32.3 31.1 25.7 19.1 9.9 4.4 tamm(m) -12.1 -9.7 -6.2 -0.2 5.7 11.1 15.0 13.8 7.8 1.5 -5.4 -9.9 ra(m) 216. 295. 424. 508. 554. 608. 554. 606. 536. 438. 324. 229. 186. NEVADA - ELKO alat(deg)= 40.83 yrs= 27. elev (m)=1546.9 tp05(mm)= 19.0 tp6(mm)= 40.6 to month jan feb mar apr may jun jul aug sep oct nov decomonth jan feb mar apr may jun jul aug sep oct nov decomonth jan feb mar apr may jun jul aug sep oct nov decomonth jan feb mar apr may jun jul aug sep oct nov decomonth jan feb mar apr may jun jul aug sep oct nov decomonth jan feb mar apr may jun jul aug sep oct nov decomonth jan feb mar apr may jun jul aug sep oct nov decomonth jan feb mar apr may jun jul aug sep oct nov decomonth jan feb mar apr may jun jul aug sep oct nov decomonth jan feb mar apr may jun jul aug sep oct nov decomonth jan feb mar apr may jun jul aug sep oct nov decomonth jan feb mar apr may jun jul aug sep oct nov decomonth jan feb mar apr may jun jul aug sep oct nov decomonth jan feb mar apr may jun jul													104.
prw2(m)         0.292         0.377         0.344         0.448         0.498         0.453         0.377         0.314         0.435         0.351         0.309         0.268           pw1(m)         0.126         0.151         0.167         0.179         0.255         0.273         0.270         0.227         0.154         0.117         0.108         0.112           elg(m)         0.845         0.750         0.731         0.683         0.700         0.635         0.769         0.676         0.705         0.704         0.813         0.785           betg(m)         2.39         3.48         4.83         8.71         11.84         16.26         10.19         9.86         10.36         7.16         3.33         3.20           ri(m)         1.5         1.0         23.4         14.7         36.6         19.6         52.8         30.5         27.4         3.6         5.1         2.0           tamn(m)         1.15         1.0         23.4         4.9         2.5         7.9         7.8         13.3         16.8         15.4         9.6         2.5         -4.9         -9.5           ra(m)         193.         264.         355.         421.				cactaca,- 4	11.12	13- 0.	C ( C V ( III	7- 041.0	CDOD (IIIII)-	00.0 1	20 (mm) - 11	1.0	
Prw1(m)	month	ıan	feb	mar	apr	mav	iun	iut	aug	sep	oct	nov	dec
alfg(m)													
rim 1.5 1.0 23.4 14.7 36.6 19.6 52.8 30.5 27.4 3.6 5.1 2.0 tamx(m) 2.7 5.3 9.7 16.6 22.1 27.5 31.9 30.8 25.7 19.4 10.3 4.2 tamx(m) -11.6 -9.0 -4.8 1.9 7.8 13.3 16.8 15.4 9.6 2.5 -4.9 -9.5 ra(m) 193. 264. 355. 421. 499. 549. 573. 489. 401. 300. 204. 164. NEBRASKA - SCOTISBLUFF alat(deg)= 41.87 yrs= 15. elev (m)=1204.0 tp05(mm)= 50.8 tp6(mm)= 90.2 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.326 0.396 0.390 0.474 0.555 0.529 0.335 0.323 0.446 0.363 0.286 0.354 prw1(m) 0.122 0.133 0.192 0.189 0.269 0.312 0.240 0.171 0.147 0.112 0.112 0.129 alfg(m) 0.998 0.998 0.877 0.858 0.715 0.699 0.676 0.789 0.600 0.720 0.868 0.998 betg(m) 1.75 1.65 2.90 4.98 8.71 10.11 8.48 4.67 7.09 5.92 2.54 2.13 tamx(m) 2.6 5.4 9.3 15.9 21.2 27.2 32.3 31.1 25.7 19.1 9.9 4.4 tamn(m) -12.1 -9.7 -6.2 -0.2 5.7 11.1 15.0 13.8 7.8 1.5 -5.4 -9.9 ra(m) 216. 295. 424. 508. 554. 643. 606. 536. 438. 324. 229. 186. NEVADA - ELKO alat(deg)= 40.83 yrs= 27. elev (m)=1546.9 tp05(mm)= 19.0 tp6(mm)= 40.6 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.467 0.533 0.420 0.476 0.532 0.547 0.310 0.354 0.250 0.338 0.496 0.489 prw1(m) 0.224 0.216 0.212 0.163 0.176 0.130 0.095 0.091 0.083 0.080 0.146 0.220 prw1(m) 0.224 0.216 0.212 0.163 0.176 0.130 0.095 0.091 0.083 0.080 0.146 0.220 alfg(m) 0.797 0.928 0.958 0.958 0.905 0.960 0.809 0.828 0.565 0.779 0.738 0.998 0.921 betg(m) 4.17 2.31 2.74 2.92 2.97 4.80 2.90 7.87 3.33 4.90 3.15 3.40 ri(m) 2.0 2.3 3.0 4.6 3.0 7.6 11.7 2.5 8.9 3.0 2.5 2.5 tamx(m) 1.4 4.6 9.6 15.8 21.4 26.1 32.9 31.7 26.3 18.8 9.5 3.8 tamx(m) 1.4 4.6 9.6 15.8 21.4 26.1 32.9 31.7 26.3 18.8 9.5 3.8 tamx(m) 1.2 7.7 8.6 -5.1 -1.8 1.9 5.3 9.5 7.8 2.4 -1.7 -6.8 -9.5	prw2(m)	0.292	0.377	0.344	0.448	0.498	0.453	0.377	0.314	0.435	0.351	0.309	0.268
tamx(m) 2.7 5.3 9.7 16.6 22.1 27.5 31.9 30.8 25.7 19.4 10.3 4.2 tamm(m) -11.6 -9.0 -4.8 1.9 7.8 13.3 16.8 15.4 9.6 2.5 -4.9 -9.5 ra(m) 193. 264. 355. 421. 499. 549. 573. 489. 401. 300. 204. 164. NEBRASKA - SCOTTSBLUFF alat(deg)= 41.87 yrs= 15. elev (m)=1204.0 tp05(mm)= 50.8 tp6(mm)= 90.2 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.326 0.396 0.390 0.474 0.555 0.529 0.335 0.323 0.446 0.363 0.286 0.354 prw1(m) 0.122 0.133 0.192 0.189 0.269 0.312 0.240 0.171 0.147 0.112 0.112 0.129 alfg(m) 0.998 0.998 0.877 0.858 0.715 0.699 0.676 0.789 0.600 0.720 0.868 0.998 betg(m) 1.75 1.65 2.90 4.98 8.71 10.11 8.48 4.67 7.09 5.92 2.54 2.13 tamx(m) 2.6 5.4 9.3 15.9 21.2 27.2 32.3 31.1 25.7 19.1 9.9 4.4 tamn(m) -12.1 -9.7 -6.2 -0.2 5.7 11.1 15.0 13.8 7.8 1.5 -5.4 -9.9 ra(m) 216. 295. 424. 508. 554. 643. 606. 536. 438. 324. 229. 186. NEVADA - ELKO alat(deg)= 40.83 yrs= 27. elev (m)=1546.9 tp05(mm)= 19.0 tp6(mm)= 40.6 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.467 0.533 0.420 0.476 0.532 0.547 0.310 0.354 0.250 0.338 0.496 0.489 prw1(m) 0.224 0.216 0.212 0.163 0.176 0.130 0.095 0.091 0.083 0.080 0.146 0.220 alfg(m) 0.797 0.928 0.958 0.905 0.960 0.809 0.828 0.565 0.779 0.738 0.998 0.921 betg(m) 4.17 2.31 2.74 2.92 2.97 4.80 2.90 7.87 3.33 4.90 3.15 3.40 ri(m) 2.0 2.3 3.0 4.6 3.0 7.6 11.7 2.5 8.9 3.0 2.5 2.5 tamx(m) 1.4 4.6 9.6 15.8 21.4 26.1 32.9 31.7 26.3 18.8 9.5 3.8 tamn(m) -12.7 -8.6 -5.1 -1.8 1.9 5.3 9.5 7.8 2.4 -1.7 -6.8 -9.5	prw2(m) prw1(m)	0.292 0.126	0.377 0.151	0.344 0.167	0.448	0.498 0.255	0.453 0.273	0.377 0.270	0.314 0.227	0.435 0.154	0. <b>3</b> 51 0.117	0.309 0.108	0.268
tamn(m) -11.6	prw2(m) prw1(m) alfg(m)	0.292 0.126 0.845	0.377 0.151 0.750	0.344 0.167 0.731	0.448 0.179 0.683	0.498 0.255 0.700	0.453 0.273 0.635	0.377 0.270 0.769	0.314 0.227 0.676	0.435 0.154 0.705	0.351 0.117 0.704	0.309 0.108 0.813	0.268 0.112 0.785
Ta(m)   193.   264.   355.   421.   499.   549.   573.   489.   401.   300.   204.   164.	prw2(m) prw1(m) alfg(m) betg(m)	0.292 0.126 0.845 2.39	0.377 0.151 0.750 3.48	0.344 0.167 0.731 4.83	0.448 0.179 0.683 8.71	0.498 0.255 0.700 11.84	0.453 0.273 0.635 16.26	0.377 0.270 0.769 10.19	0.314 0.227 0.676 9.86	0.435 0.154 0.705 10.36	0.351 0.117 0.704 7.16	0.309 0.108 0.813 3.33	0.268 0.112 0.785 3.20
NEBRASKA - SCOTTSBLUFF         alat(deg)= 41.87 yrs= 15.         elev (m)=1204.0         tp05(mm)= 50.8 tp6(mm)= 90.2           month         jan         feb         mar         apr         may         jun         jul         aug         sep         oct         nov         dec           prw2(m)         0.326         0.396         0.390         0.474         0.555         0.529         0.335         0.323         0.446         0.363         0.286         0.354           prw1(m)         0.122         0.133         0.192         0.189         0.269         0.312         0.240         0.171         0.147         0.112         0.112         0.129           alfg(m)         0.998         0.978         0.877         0.858         0.715         0.699         0.676         0.789         0.600         0.720         0.868         0.998           betg(m)         1.75         1.65         2.90         4.98         8.71         10.11         8.48         4.67         7.09         5.92         2.54         2.13           ri(m)         1.5         1.8         6.3         4.8         13.0         30.5         41.1         26.9         6.3         3.3         5.1         2.3	prw2(m) prw1(m) alfg(m) betg(m) ri(m)	0.292 0.126 0.845 2.39 1.5	0.377 0.151 0.750 3.48 1.0	0.344 0.167 0.731 4.83 23.4	0.448 0.179 0.683 8.71 14.7	0.498 0.255 0.700 11.84 36.6	0.453 0.273 0.635 16.26 19.6	0.377 0.270 0.769 10.19 52.8	0.314 0.227 0.676 9.86 30.5	0.435 0.154 0.705 10.36 27.4 25.7	0.351 0.117 0.704 7.16 3.6	0.309 0.108 0.813 3.33 5.1	0.268 0.112 0.785 3.20 2.0
month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.326 0.396 0.390 0.474 0.555 0.529 0.335 0.323 0.446 0.363 0.286 0.354 prw1(m) 0.122 0.133 0.192 0.189 0.269 0.312 0.240 0.171 0.147 0.112 0.112 0.129 alfg(m) 0.998 0.998 0.877 0.858 0.715 0.699 0.676 0.789 0.600 0.720 0.868 0.998 betg(m) 1.75 1.65 2.90 4.98 8.71 10.11 8.48 4.67 7.09 5.92 2.54 2.13 ri(m) 1.5 1.8 6.3 4.8 13.0 30.5 41.1 26.9 6.3 3.3 5.1 2.3 tamx(m) 2.6 5.4 9.3 15.9 21.2 27.2 32.3 31.1 25.7 19.1 9.9 4.4 tamn(m) -12.1 -9.7 -6.2 -0.2 5.7 11.1 15.0 13.8 7.8 1.5 -5.4 -9.9 ra(m) 216. 295. 424. 508. 554. 643. 606. 536. 438. 324. 229. 186. NEVADA - ELKO alat(deg)= 40.83 yrs= 27. elev (m)=1546.9 tp05(mm)= 19.0 tp6(mm)= 40.6 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.467 0.533 0.420 0.476 0.532 0.547 0.310 0.354 0.250 0.338 0.496 0.489 prw1(m) 0.224 0.216 0.212 0.163 0.176 0.130 0.095 0.091 0.083 0.080 0.146 0.220 alfg(m) 0.797 0.928 0.958 0.905 0.960 0.809 0.828 0.565 0.779 0.738 0.998 0.921 betg(m) 4.17 2.31 2.74 2.92 2.97 4.80 2.90 7.87 3.33 4.90 3.15 3.40 ri(m) 2.0 2.3 3.0 4.6 3.0 7.6 11.7 2.5 8.9 3.0 2.5 2.5 tamx(m) 1.4 4.6 9.6 15.8 21.4 26.1 32.9 31.7 26.3 18.8 9.5 3.8 tamx(m) -12.7 -8.6 -5.1 -1.8 1.9 5.3 9.5 7.8 2.4 -1.7 -6.8 -9.5	pr⊌2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	0.292 0.126 0.845 2.39 1.5 2.7	0.377 0.151 0.750 3.48 1.0 5.3	0.344 0.167 0.731 4.83 23.4 9.7	0.448 0.179 0.683 8.71 14.7 16.6 1.9	0.498 0.255 0.700 11.84 36.6 22.1 7.8	0.453 0.273 0.635 16.26 19.6 27.5	0.377 0.270 0.769 10.19 52.8 31.9 16.8	0.314 0.227 0.676 9.86 30.5 30.8 15.4	0.435 0.154 0.705 10.36 27.4 25.7 9.6	0.351 0.117 0.704 7.16 3.6 19.4 2.5	0.309 0.108 0.813 3.33 5.1 10.3 -4.9	0.268 0.112 0.785 3.20 2.0 4.2 -9.5
prw2(m) 0.326 0.396 0.390 0.474 0.555 0.529 0.335 0.323 0.446 0.363 0.286 0.354 prw1(m) 0.122 0.133 0.192 0.189 0.269 0.312 0.240 0.171 0.147 0.112 0.112 0.129 alfg(m) 0.998 0.998 0.877 0.858 0.715 0.699 0.676 0.789 0.600 0.720 0.868 0.998 betg(m) 1.75 1.65 2.90 4.98 8.71 10.11 8.48 4.67 7.09 5.92 2.54 2.13 ri(m) 1.5 1.8 6.3 4.8 13.0 30.5 41.1 26.9 6.3 3.3 5.1 2.3 tamx(m) 2.6 5.4 9.3 15.9 21.2 27.2 32.3 31.1 25.7 19.1 9.9 4.4 tamn(m) -12.1 -9.7 -6.2 -0.2 5.7 11.1 15.0 13.8 7.8 1.5 -5.4 -9.9 ra(m) 216. 295. 424. 508. 554. 643. 606. 536. 438. 324. 229. 186. NEVADA - ELKO alat(deg) = 40.83 yrs = 27. elev (m)=1546.9 tp05(mm) = 19.0 tp6(mm) = 40.6 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.467 0.533 0.420 0.476 0.532 0.547 0.310 0.354 0.250 0.338 0.496 0.489 prw1(m) 0.224 0.216 0.212 0.163 0.176 0.130 0.095 0.091 0.083 0.080 0.146 0.220 alfg(m) 0.797 0.928 0.958 0.905 0.960 0.809 0.828 0.565 0.779 0.738 0.998 0.921 betg(m) 4.17 2.31 2.74 2.92 2.97 4.80 2.90 7.87 3.33 4.90 3.15 3.40 ri(m) 2.0 2.3 3.0 4.6 3.0 7.6 11.7 2.5 8.9 3.0 2.5 2.5 tamx(m) 1.4 4.6 9.6 15.8 21.4 26.1 32.9 31.7 26.3 18.8 9.5 3.8 tamn(m) -12.7 -8.6 -5.1 -1.8 1.9 5.3 9.5 7.8 2.4 -1.7 -6.8 -9.5	pr⊌2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m)	0.292 0.126 0.845 2.39 1.5 2.7 -11.6	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264.	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355.	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421.	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499.	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549.	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573.	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489.	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401.	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300.	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204.	0.268 0.112 0.785 3.20 2.0 4.2
prw1(m) 0.122 0.133 0.192 0.189 0.269 0.312 0.240 0.171 0.147 0.112 0.112 0.129 alfg(m) 0.998 0.998 0.877 0.858 0.715 0.699 0.676 0.789 0.600 0.720 0.868 0.998 betg(m) 1.75 1.65 2.90 4.98 8.71 10.11 8.48 4.67 7.09 5.92 2.54 2.13 ri(m) 1.5 1.8 6.3 4.8 13.0 30.5 41.1 26.9 6.3 3.3 5.1 2.3 tamx(m) 2.6 5.4 9.3 15.9 21.2 27.2 32.3 31.1 25.7 19.1 9.9 4.4 tamn(m) -12.1 -9.7 -6.2 -0.2 5.7 11.1 15.0 13.8 7.8 1.5 -5.4 -9.9 ra(m) 216. 295. 424. 508. 554. 643. 606. 536. 438. 324. 229. 186. NEVADA - ELKO alat(deg) 40.83 yrs= 27. elev (m)=1546.9 tp05(mm)= 19.0 tp6(mm)= 40.6 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.467 0.533 0.420 0.476 0.532 0.547 0.310 0.354 0.250 0.338 0.496 0.489 prw1(m) 0.224 0.216 0.212 0.163 0.176 0.130 0.095 0.091 0.083 0.080 0.146 0.220 alfg(m) 0.797 0.928 0.958 0.905 0.960 0.809 0.828 0.565 0.779 0.738 0.998 0.921 betg(m) 4.17 2.31 2.74 2.92 2.97 4.80 2.90 7.87 3.33 4.90 3.15 3.40 ri(m) 2.0 2.3 3.0 4.6 3.0 7.6 11.7 2.5 8.9 3.0 2.5 2.5 tamx(m) 1.4 4.6 9.6 15.8 21.4 26.1 32.9 31.7 26.3 18.8 9.5 3.8 tamn(m) -12.7 -8.6 -5.1 -1.8 1.9 5.3 9.5 7.8 2.4 -1.7 -6.8 -9.5	pr⊮2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEBRASKA -	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264.	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg)= 41	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421.	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499.	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m)	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573.	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)=	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401.	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm)= 90	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204.	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164.
alfg(m) 0.998 0.998 0.877 0.858 0.715 0.699 0.676 0.789 0.600 0.720 0.868 0.998 betg(m) 1.75 1.65 2.90 4.98 8.71 10.11 8.48 4.67 7.09 5.92 2.54 2.13 ri(m) 1.5 1.8 6.3 4.8 13.0 30.5 41.1 26.9 6.3 3.3 5.1 2.3 tamx(m) 2.6 5.4 9.3 15.9 21.2 27.2 32.3 31.1 25.7 19.1 9.9 4.4 tamn(m) -12.1 -9.7 -6.2 -0.2 5.7 11.1 15.0 13.8 7.8 1.5 -5.4 -9.9 ra(m) 216. 295. 424. 508. 554. 643. 606. 536. 438. 324. 229. 186. NEVADA - ELKO slat(deg)= 40.83 yrs= 27. elev (m)=1546.9 tp05(mm)= 19.0 tp6(mm)= 40.6 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.467 0.533 0.420 0.476 0.532 0.547 0.310 0.354 0.250 0.338 0.496 0.489 prw1(m) 0.224 0.216 0.212 0.163 0.176 0.130 0.095 0.091 0.083 0.080 0.146 0.220 alfg(m) 0.797 0.928 0.958 0.905 0.960 0.809 0.828 0.565 0.779 0.738 0.998 0.991 betg(m) 4.17 2.31 2.74 2.92 2.97 4.80 2.90 7.87 3.33 4.90 3.15 3.40 ri(m) 2.0 2.3 3.0 4.6 3.0 7.6 11.7 2.5 8.9 3.0 2.5 2.5 tamx(m) 1.4 4.6 9.6 15.8 21.4 26.1 32.9 31.7 26.3 18.8 9.5 3.8 tamn(m) -12.7 -8.6 -5.1 -1.8 1.9 5.3 9.5 7.8 2.4 -1.7 -6.8 -9.5	pr⊌2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEBRASKA - month	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF Jan	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264.	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg)= 41	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421. .87 yr apr	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499. s= 15. may	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m)	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573. =1204.0 jul	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)=	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401. 50.8 tpd	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm)= 90	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204.	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164.
betg(m)         1.75         1.65         2.90         4.98         8.71         10.11         8.48         4.67         7.09         5.92         2.54         2.13           ri(m)         1.5         1.8         6.3         4.8         13.0         30.5         41.1         26.9         6.3         3.3         5.1         2.3           tamx(m)         2.6         5.4         9.3         15.9         21.2         27.2         32.3         31.1         25.7         19.1         9.9         4.4           tamm(m)         -12.1         -9.7         -6.2         -0.2         5.7         11.1         15.0         13.8         7.8         1.5         -5.4         -9.9           ra(m)         216.         295.         424.         508.         554.         643.         606.         536.         438.         324.         229.         186.           NEVADA - ELKO         alat(deg) = 40.83 yrs = 27.         elev (m)=1546.9 pto(m)=19.0 tp6(mm) = 40.6         40.6         60.6         536.         438.         324.         229.         186.           NEVADA - ELKO         alat(deg) = 40.83 yrs = 27.         elev (m)=1546.9 pto(m)=19.0 tp6(mm) = 40.6         60.6         60.6         536.	prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEBRASKA - month prw2(m)	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF jan 0.326	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264. F ala feb 0.396	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg) = 41 mar 0.390	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421. .87 yr apr 0.474	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499. s= 15. may 0.555	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m) jun 0.529	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573. =1204.0 jul 0.335	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)= aug 0.323	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401. 50.8 tpd sep 0.446	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm) = 90 oct 0.363	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204.	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164. dec 0.354
ri(m) 1.5 1.8 6.3 4.8 13.0 30.5 41.1 26.9 6.3 3.3 5.1 2.3 tamx(m) 2.6 5.4 9.3 15.9 21.2 27.2 32.3 31.1 25.7 19.1 9.9 4.4 tamn(m) -12.1 -9.7 -6.2 -0.2 5.7 11.1 15.0 13.8 7.8 1.5 -5.4 -9.9 ra(m) 216. 295. 424. 508. 554. 643. 606. 536. 438. 324. 229. 186. NEVADA - ELKO alat(deg)= 40.83 yrs= 27. elev (m)=1546.9 tp05(mm)= 19.0 tp6(mm)= 40.6 month jan feb mar apr may jum jul aug sep oct nov dec prw2(m) 0.467 0.533 0.420 0.476 0.532 0.547 0.310 0.354 0.250 0.338 0.496 0.489 prw1(m) 0.224 0.216 0.212 0.163 0.176 0.130 0.095 0.091 0.083 0.080 0.146 0.220 alfg(m) 0.797 0.928 0.958 0.905 0.960 0.809 0.828 0.565 0.779 0.738 0.998 0.921 betg(m) 4.17 2.31 2.74 2.92 2.97 4.80 2.90 7.87 3.33 4.90 3.15 3.40 ri(m) 2.0 2.3 3.0 4.6 3.0 7.6 11.7 2.5 8.9 3.0 2.5 2.5 tamx(m) 1.4 4.6 9.6 15.8 21.4 26.1 32.9 31.7 26.3 18.8 9.5 3.8 tamn(m) -12.7 -8.6 -5.1 -1.8 1.9 5.3 9.5 7.8 2.4 -1.7 -6.8 -9.5	prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) NEBRASKA - month prw2(m) prw1(m)	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF jan 0.326 0.122	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264. F ala feb 0.396 0.133	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg) = 41 mar 0.390 0.192	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421. .87 yr apr 0.474 0.189	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499. s= 15. may 0.555 0.269	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m) jun 0.529 0.312	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573. =1204.0 jul 0.335 0.240	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)= aug 0.323 0.171	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401. 50.8 tpc sep 0.446 0.147	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm) = 90 oct 0.363 0.112	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204. .2 nov 0.286 0.112	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164. dec 0.354 0.129
tamx(m) 2.6 5.4 9.3 15.9 21.2 27.2 32.3 31.1 25.7 19.1 9.9 4.4 tamn(m) -12.1 -9.7 -6.2 -0.2 5.7 11.1 15.0 13.8 7.8 1.5 -5.4 -9.9 ra(m) 216. 295. 424. 508. 554. 643. 606. 536. 438. 324. 229. 186. NEVADA - ELKO alat(deg) = 40.83 yrs = 27. elev (m)=1546.9 tp05(mm) = 19.0 tp6(mm) = 40.6 month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.467 0.533 0.420 0.476 0.532 0.547 0.310 0.354 0.250 0.338 0.496 0.489 prw1(m) 0.224 0.216 0.212 0.163 0.176 0.130 0.095 0.091 0.083 0.080 0.146 0.220 alfg(m) 0.797 0.928 0.958 0.905 0.960 0.809 0.828 0.565 0.779 0.738 0.998 0.921 betg(m) 4.17 2.31 2.74 2.92 2.97 4.80 2.90 7.87 3.33 4.90 3.15 3.40 ri(m) 2.0 2.3 3.0 4.6 3.0 7.6 11.7 2.5 8.9 3.0 2.5 2.5 tamx(m) 1.4 4.6 9.6 15.8 21.4 26.1 32.9 31.7 26.3 18.8 9.5 3.8 tamn(m) -12.7 -8.6 -5.1 -1.8 1.9 5.3 9.5 7.8 2.4 -1.7 -6.8 -9.5	prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEBRASKA - month prw2(m) prw1(m) alfg(m)	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF jan 0.326 0.122 0.998	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264. Feb 0.396 0.133 0.998	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg)= 41 mar 0.390 0.192 0.877	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421. .87 yr apr 0.474 0.189 0.858	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499. s= 15. may 0.555 0.269 0.715	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m) jun 0.529 0.312 0.699	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573. =1204.0 jul 0.335 0.240 0.676	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)= aug 0.323 0.171 0.789	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401. 50.8 tpd sep 0.446 0.147 0.600	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm) = 90 oct 0.363 0.112 0.720	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204. .2 nov 0.286 0.112 0.868	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164. dec 0.354 0.129 0.998
tamn(m) -12.1 -9.7 -6.2 -0.2 5.7 11.1 15.0 13.8 7.8 1.5 -5.4 -9.9 ra(m) 216. 295. 424. 508. 554. 643. 606. 536. 438. 324. 229. 186. NEVADA - ELKO alat(deg)= 40.83 yrs= 27. elev (m)=1546.9 tp05(mm)= 19.0 tp6(mm)= 40.6 month jan feb mar apr may jun jul aug sep oct nov dec pru2(m) 0.467 0.533 0.420 0.476 0.532 0.547 0.310 0.354 0.250 0.338 0.496 0.489 prw1(m) 0.224 0.216 0.212 0.163 0.176 0.130 0.095 0.091 0.083 0.080 0.146 0.220 alfg(m) 0.797 0.928 0.958 0.905 0.960 0.809 0.828 0.565 0.779 0.738 0.998 0.921 betg(m) 4.17 2.31 2.74 2.92 2.97 4.80 2.90 7.87 3.33 4.90 3.15 3.40 ri(m) 2.0 2.3 3.0 4.6 3.0 7.6 11.7 2.5 8.9 3.0 2.5 2.5 tamx(m) 1.4 4.6 9.6 15.8 21.4 26.1 32.9 31.7 26.3 18.8 9.5 3.8 tamn(m) -12.7 -8.6 -5.1 -1.8 1.9 5.3 9.5 7.8 2.4 -1.7 -6.8 -9.5	prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEBRASKA - month prw2(m) prw1(m) alfg(m) betg(m)	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF jan 0.326 0.122 0.998 1.75	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264. Feb 0.396 0.133 0.998 1.65	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg)= 41 mar 0.390 0.192 0.877 2.90	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421. .87 yr apr 0.474 0.189 0.858 4.98	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499. s= 15. may 0.555 0.269 0.715 8.71	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m) jun 0.529 0.312 0.699 10.11	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573. =1204.0 jul 0.335 0.240 0.676 8.48	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)= aug 0.323 0.171 0.789 4.67	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401. 50.8 tpt sep 0.446 0.147 0.600 7.09	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm) = 90 oct 0.363 0.112 0.720 5.92	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204. .2 nov 0.286 0.112 0.868 2.54	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164. dec 0.354 0.129 0.998 2.13
ra(m) 216. 295. 424. 508. 554. 643. 606. 536. 438. 324. 229. 186.  NEVADA - ELKO alat(deg) = 40.83 yrs = 27. elev (m)=1546.9 tp05(mm) = 19.0 tp6(mm) = 40.6  month jan feb mar apr may jun jul aug sep oct nov dec prω2(m) 0.467 0.533 0.420 0.476 0.532 0.547 0.310 0.354 0.250 0.338 0.496 0.489 prω1(m) 0.224 0.216 0.212 0.163 0.176 0.130 0.095 0.091 0.083 0.080 0.146 0.220 alfg(m) 0.797 0.928 0.958 0.905 0.960 0.809 0.828 0.565 0.779 0.738 0.998 0.921 betg(m) 4.17 2.31 2.74 2.92 2.97 4.80 2.90 7.87 3.33 4.90 3.15 3.40 ri(m) 2.0 2.3 3.0 4.6 3.0 7.6 11.7 2.5 8.9 3.0 2.5 2.5 tamx(m) 1.4 4.6 9.6 15.8 21.4 26.1 32.9 31.7 26.3 18.8 9.5 3.8 tamn(m) -12.7 -8.6 -5.1 -1.8 1.9 5.3 9.5 7.8 2.4 -1.7 -6.8 -9.5	pr⊌2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEBRASKA - month prw2(m) prw1(m) alfg(m) betg(m)	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF jan 0.326 0.122 0.998 1.75 1.5	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264. Feb 0.396 0.133 0.998 1.65	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg)= 41 mar 0.390 0.192 0.877 2.90 6.3	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421. .87 yr o.474 0.189 0.858 4.98	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499. s= 15. may 0.555 0.269 0.715 8.71 13.0	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m) jun 0.529 0.312 0.699 10.11 30.5	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573. =1204.0 jul 0.335 0.240 0.676 8.48 41.1	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)= aug 0.323 0.171 0.789 4.67 26.9	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401. 50.8 tpt sep 0.446 0.147 0.600 7.09 6.3	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm)= 90 oct 0.363 0.112 0.720 5.92 3.3	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204. .2 nov 0.286 0.112 0.868 2.54 5.1	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164. dec 0.354 0.129 0.998 2.13 2.3
NEVADA - ELKO slat(deg) = 40.83 yrs = 27. elev (m)=1546.9 tp05(mm) = 19.0 tp6(mm) = 40.6  month jan feb mar apr may jun jul aug sep oct nov dec prw2(m) 0.467 0.533 0.420 0.476 0.532 0.547 0.310 0.354 0.250 0.338 0.496 0.489 prw1(m) 0.224 0.216 0.212 0.163 0.176 0.130 0.095 0.091 0.083 0.080 0.146 0.220 alfg(m) 0.797 0.928 0.958 0.905 0.960 0.809 0.828 0.565 0.779 0.738 0.998 0.921 betg(m) 4.17 2.31 2.74 2.92 2.97 4.80 2.90 7.87 3.33 4.90 3.15 tamx(m) 2.0 2.3 3.0 4.6 3.0 7.6 11.7 2.5 8.9 3.0 2.5 tamx(m) 1.4 4.6 9.6 15.8 21.4 26.1 32.9 31.7 26.3 18.8 9.5 3.8 tamn(m) -12.7 -8.6 -5.1 -1.8 1.9 5.3 9.5 7.8 2.4 -1.7 -6.8 -9.5	prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEBRASKA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF jan 0.326 0.122 0.998 1.75 1.5 2.6	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264. F eb 0.396 0.133 0.998 1.65 1.8 5.4	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg)= 41 mar 0.390 0.192 0.877 2.90 6.3 9.3	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421. .87 yr apr 0.474 0.189 0.858 4.98 4.8	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499. s= 15. may 0.555 0.269 0.715 8.71 13.0 21.2	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m) jun 0.529 0.312 0.699 10.11 30.5 27.2	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573. =1204.0 jul 0.335 0.240 0.676 8.48 41.1 32.3	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)= aug 0.323 0.171 0.789 4.67 26.9 31.1	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401. 50.8 tpc sep 0.446 0.147 0.600 7.09 6.3 25.7	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm) = 90 oct 0.363 0.112 0.720 5.92 3.3 19.1	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204. .2 nov 0.286 0.112 0.868 2.54 5.1 9.9	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164. dec 0.354 0.129 0.998 2.13 2.3 4.4
month         jan         feb         mar         apr         may         jun         jul         aug         sep         oct         nov         dec           prw2(m)         0.467         0.533         0.420         0.476         0.532         0.547         0.310         0.354         0.250         0.338         0.496         0.489           prw1(m)         0.224         0.216         0.212         0.163         0.176         0.130         0.095         0.091         0.083         0.080         0.146         0.220           alfg(m)         0.797         0.928         0.958         0.905         0.960         0.809         0.828         0.565         0.779         0.738         0.998         0.921           betg(m)         4.17         2.31         2.74         2.92         2.97         4.80         2.90         7.87         3.33         4.90         3.15         3.40           ri(m)         2.0         2.3         3.0         4.6         3.0         7.6         11.7         2.5         8.9         3.0         2.5         2.5           tamx(m)         1.4         4.6         9.6         15.8         21.4         26.1         32.9	pr⊌2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEBRASKA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m)	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF jan 0.326 0.122 0.998 1.75 1.5 2.6 -12.1	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264. F als feb 0.396 0.133 0.998 1.65 1.8 5.4 -9.7	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg)= 41 mar 0.390 0.192 0.877 2.90 6.3 9.3 -6.2	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421. .87 yr apr 0.474 0.189 0.858 4.98 4.8 15.9	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499. s= 15. may 0.555 0.269 0.715 8.71 13.0 21.2 5.7	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m) jun 0.529 0.312 0.699 10.11 30.5 27.2 11.1	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573. =1204.0 jul 0.335 0.240 0.676 8.48 41.1 32.3 15.0	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)= aug 0.323 0.171 0.789 4.67 26.9 31.1 13.8	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401. 50.8 tpt sep 0.446 0.147 0.600 7.09 6.3 25.7 7.8	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm) = 90 oct 0.363 0.112 0.720 5.92 3.3 19.1 1.5	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204. .2 nov 0.286 0.112 0.868 2.54 5.1 9.9 -5.4	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164. dec 0.354 0.129 0.998 2.13 2.3 4.4 -9.9
prw2(m) 0.467 0.533 0.420 0.476 0.532 0.547 0.310 0.354 0.250 0.338 0.496 0.489 prw1(m) 0.224 0.216 0.212 0.163 0.176 0.130 0.095 0.091 0.083 0.080 0.146 0.220 alfg(m) 0.797 0.928 0.958 0.905 0.960 0.809 0.828 0.565 0.779 0.738 0.998 0.921 betg(m) 4.17 2.31 2.74 2.92 2.97 4.80 2.90 7.87 3.33 4.90 3.15 3.40 ri(m) 2.0 2.3 3.0 4.6 3.0 7.6 11.7 2.5 8.9 3.0 2.5 2.5 tamx(m) 1.4 4.6 9.6 15.8 21.4 26.1 32.9 31.7 26.3 18.8 9.5 3.8 tamn(m) -12.7 -8.6 -5.1 -1.8 1.9 5.3 9.5 7.8 2.4 -1.7 -6.8 -9.5	prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEBRASKA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m)	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF Jan 0.326 0.122 0.998 1.75 1.5 2.6 -12.1 216.	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264. F als feb 0.396 0.133 0.998 1.65 1.8 5.4 -9.7 295.	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg)= 41 mar 0.390 0.192 0.877 2.90 6.3 9.3 -6.2 424.	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421. .87 yr apr 0.474 0.189 0.858 4.98 4.98 4.98 15.9 -0.2 508.	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499. s= 15. may 0.555 0.269 0.715 8.71 13.0 21.2 5.7 554.	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m) jun 0.529 0.312 0.699 10.11 30.5 27.2 11.1 643.	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573. =1204.0 jul 0.335 0.240 0.676 8.48 41.1 32.3 15.0 606.	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)= aug 0.323 0.171 0.789 4.67 26.9 31.1 13.8 536.	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401. 50.8 tp/ sep 0.446 0.147 0.600 7.09 6.3 25.7 7.8 438.	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm) = 90 oct 0.363 0.112 0.720 5.92 3.3 19.1 1.5 324.	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204. .2 nov 0.286 0.112 0.868 2.54 5.1 9.9 -5.4	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164. dec 0.354 0.129 0.998 2.13 2.3 4.4 -9.9
prw1(m)         0.224         0.216         0.212         0.163         0.176         0.130         0.095         0.091         0.083         0.080         0.146         0.220           alfg(m)         0.797         0.928         0.958         0.905         0.960         0.809         0.828         0.565         0.779         0.738         0.998         0.921           betg(m)         4.17         2.31         2.74         2.92         2.97         4.80         2.90         7.87         3.33         4.90         3.15         3.40           ri(m)         2.0         2.3         3.0         4.6         3.0         7.6         11.7         2.5         8.9         3.0         2.5         2.5           tamx(m)         1.4         4.6         9.6         15.8         21.4         26.1         32.9         31.7         26.3         18.8         9.5         3.8           tamn(m)         -12.7         -8.6         -5.1         -1.8         1.9         5.3         9.5         7.8         2.4         -1.7         -6.8         -9.5	prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) NEBRASKA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) ra(m)	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF jan 0.326 0.122 0.998 1.75 1.5 2.6 -12.1 216.	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264. if feb 0.396 0.133 0.998 1.65 1.8 5.4 -9.7 295. at (deg) = 4	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg) = 41 mar 0.390 0.192 0.877 2.90 6.3 9.3 -6.2 424.	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421. .87 yr apr 0.474 0.189 0.858 4.98 4.8 5.99 -0.2 508.	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499. s= 15. may 0.555 0.269 0.715 8.71 13.0 21.2 5.7 554. elev (m)	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m) jun 0.529 0.312 0.699 10.11 30.5 27.2 11.1 643.	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573. =1204.0 jul 0.335 0.240 0.676 8.48 41.1 32.3 15.0 606. tp05(mm)=	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)= aug 0.323 0.171 0.789 4.67 26.9 31.1 13.8 536.	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401. 50.8 tpt sep 0.446 0.147 0.600 7.09 6.3 25.7 7.8 438. (mm) = 40	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm) = 90 oct 0.363 0.112 0.720 5.92 3.3 19.1 1.5 324.	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204. .2 nov 0.286 0.112 0.868 2.54 5.1 9.9 -5.4 229.	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164. dec 0.354 0.129 0.998 2.13 2.3 4.4 -9.9 186.
alfg(m) 0.797 0.928 0.958 0.905 0.960 0.809 0.828 0.565 0.779 0.738 0.998 0.921 betg(m) 4.17 2.31 2.74 2.92 2.97 4.80 2.90 7.87 3.33 4.90 3.15 3.40 ri(m) 2.0 2.3 3.0 4.6 3.0 7.6 11.7 2.5 8.9 3.0 2.5 2.5 tamx(m) 1.4 4.6 9.6 15.8 21.4 26.1 32.9 31.7 26.3 18.8 9.5 3.8 tamn(m) -12.7 -8.6 -5.1 -1.8 1.9 5.3 9.5 7.8 2.4 -1.7 -6.8 -9.5	prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) NEBRASKA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) NEWADA - EL month	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF jan 0.326 0.122 0.998 1.75 1.5 2.6 -12.1 216.	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264. F als feb 0.396 0.133 0.998 1.65 1.8 5.4 -9.7 295. at(deg) = 4	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg) = 41 mar 0.390 0.192 0.877 2.90 6.3 9.3 -6.2 424. 40.83 yrs =	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421. .87 yr apr 0.474 0.189 0.858 4.98 4.98 4.8 15.99 -0.2 508. 27.	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499. s= 15. may 0.555 0.269 0.715 8.71 13.0 21.2 5.7 554. elev (m)	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m) jun 0.529 0.312 0.699 10.11 30.5 27.2 11.1 643. =1546.9 jun	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573. =1204.0 jul 0.335 0.240 0.676 8.48 41.1 32.3 15.0 606. tp05(mm)=	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)= aug 0.323 0.171 0.789 4.67 26.9 31.1 13.8 536.	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401. 50.8 tpd sep 0.446 0.147 0.600 7.09 6.3 25.7 7.8 438. (mm) = 40 sep	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm) = 90 oct 0.363 0.112 0.720 5.92 3.3 19.1 1.5 324.	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204. .2 nov 0.286 0.112 0.868 2.54 5.1 9.9 -5.4 229.	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164. dec 0.354 0.129 0.998 2.13 2.3 4.4 -9.9 186.
betg(m) 4.17 2.31 2.74 2.92 2.97 4.80 2.90 7.87 3.33 4.90 3.15 3.40 ri(m) 2.0 2.3 3.0 4.6 3.0 7.6 11.7 2.5 8.9 3.0 2.5 2.5 tamx(m) 1.4 4.6 9.6 15.8 21.4 26.1 32.9 31.7 26.3 18.8 9.5 3.8 tamn(m) -12.7 -8.6 -5.1 -1.8 1.9 5.3 9.5 7.8 2.4 -1.7 -6.8 -9.5	prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) NEBRASKA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) NEWADA - EL month prw2(m)	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF jan 0.326 0.122 0.998 1.75 1.5 2.6 -12.1 216. KO ala jan 0.467	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264. Feb 0.396 0.133 0.998 1.65 1.8 5.4 -9.7 295. at (deg) = 4 feb 0.533	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg)= 41 mar 0.390 0.192 0.877 2.90 6.3 9.3 -6.2 424. 40.83 yrs= mar 0.420	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421. .87 yr apr 0.474 0.189 0.858 4.98 4.98 4.8 15.9 -0.2 508. 27. apr 0.476	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499. s= 15. may 0.555 0.269 0.715 8.71 13.0 21.2 5.7 554. etev (m)	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m) jun 0.529 0.312 0.699 10.11 30.5 27.2 11.1 643. =1546.9 jun 0.547	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573. =1204.0 jul 0.335 0.240 0.676 8.48 41.1 32.3 15.0 606. tp05(mm)=	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)= aug 0.323 0.171 0.789 4.67 26.9 31.1 13.8 536. 19.0 tp6	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401. 50.8 tps sep 0.446 0.147 0.600 7.09 6.3 25.7 7.8 438. (mm) = 40 sep 0.250	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm) = 90 oct 0.363 0.112 0.720 5.92 3.3 19.1 1.5 324.	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204. .2 nov 0.286 0.112 0.868 2.54 5.1 9.9 -5.4 229.	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164. dec 0.354 0.129 0.998 2.13 2.3 4.4 -9.9 186. dec 0.489
ri(m) 2.0 2.3 3.0 4.6 3.0 7.6 11.7 2.5 8.9 3.0 2.5 2.5 tamx(m) 1.4 4.6 9.6 15.8 21.4 26.1 32.9 31.7 26.3 18.8 9.5 3.8 tamn(m) -12.7 -8.6 -5.1 -1.8 1.9 5.3 9.5 7.8 2.4 -1.7 -6.8 -9.5	prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) NEBRASKA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) NEVADA - EL month prw2(m) prw1(m)	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF jan 0.326 0.122 0.998 1.75 1.5 2.6 -12.1 216. KO ala jan 0.467 0.224	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264. Feb 0.396 0.133 0.998 1.65 1.8 5.4 -9.7 295. at (deg) = 4 feb 0.533 0.216	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg) = 41 mar 0.390 0.192 0.877 2.90 6.3 9.3 -6.2 424. 40.83 yrs= mar 0.420 0.212	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421. .87 yr apr 0.474 0.189 0.858 4.98 4.8 15.9 -0.2 508. 27. apr 0.476 0.163	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499. s= 15. may 0.555 0.269 0.715 8.71 13.0 21.2 5.7 554. elev (m)	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m) jun 0.529 0.312 0.699 10.11 30.5 27.2 11.1 643. =1546.9 jun 0.547 0.130	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573. =1204.0 jul 0.335 0.240 0.676 8.48 41.1 32.3 15.0 606. tp05(mm)= jul 0.310 0.095	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)= aug 0.323 0.171 0.789 4.67 26.9 31.1 13.8 536. 19.0 tp6 aug	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401. 50.8 tpd sep 0.446 0.147 0.600 7.09 6.3 25.7 7.8 438. (mm) = 40 sep 0.250 0.083	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm) = 90 oct 0.363 0.112 0.720 5.92 3.3 19.1 1.5 324. 3.6 oct 0.338 0.080	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204. .2 nov 0.286 0.112 0.868 2.54 5.1 9.9 -5.4 229. nov	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164. dec 0.354 0.129 0.998 2.13 2.3 4.4 -9.9 186. dec 0.489 0.220
tamx(m) 1.4 4.6 9.6 15.8 21.4 26.1 32.9 31.7 26.3 18.8 9.5 3.8 tamn(m) -12.7 -8.6 -5.1 -1.8 1.9 5.3 9.5 7.8 2.4 -1.7 -6.8 -9.5	prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEBRASKA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) NEVADA - EL month prw2(m) prw1(m) alfg(m)	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF jan 0.326 0.122 0.998 1.75 1.5 2.6 -12.1 216. KO ala jan 0.467 0.224 0.797	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264. F eb 0.396 0.133 0.998 1.65 1.8 5.4 -9.7 295. at (deg) = 4 feb 0.533 0.216 0.928	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg)= 41 mar 0.390 0.192 0.877 2.90 6.3 9.3 -6.2 424. 40.83 yrs= mar 0.420 0.212 0.958	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421. .87 yr apr 0.474 0.189 4.8 4.98 4.8 15.9 -0.2 508. 27. apr 0.476 0.163 0.905	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499. s= 15. may 0.555 0.269 0.715 8.71 13.0 21.2 5.7 554. elev (m) may 0.532 0.176 0.960	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m) jun 0.529 0.312 0.699 10.11 30.5 27.2 11.1 643. =1546.9 jun 0.547 0.130 0.809	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573. =1204.0 jul 0.335 0.240 0.676 8.48 41.1 32.3 15.0 606. tp05(mm)= jul 0.395	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)= aug 0.323 0.171 0.789 4.67 26.9 31.1 13.8 536. 19.0 tp6 aug	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401. 50.8 tpc sep 0.446 0.147 0.600 7.09 6.3 25.7 7.8 438. (mm) = 40 sep 0.250 0.083 0.779	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm) = 90 oct 0.363 0.112 0.720 5.92 3.3 19.1 1.5 324. 0.6 0.338 0.080 0.738	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204. .2 nov 0.286 0.112 0.868 2.54 5.1 9.9 -5.4 229.	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164. dec 0.354 0.129 0.998 2.13 2.3 4.4 -9.9 186. dec 0.489 0.220 0.921
tamn(m) -12.7 -8.6 -5.1 -1.8 1.9 5.3 9.5 7.8 2.4 -1.7 -6.8 -9.5	prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) ra(m) NEBRASKA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) prw1(m) alfg(m) betg(m) prw1(m) alfg(m) betg(m)	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF jan 0.326 0.122 0.998 1.75 1.5 2.6 -12.1 216. .KO ala jan 0.467 0.224 0.797 4.17	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264. F eb 0.396 0.133 0.998 1.65 1.8 5.4 -9.7 295. at (deg) = 4 feb 0.533 0.928 2.31	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg)= 41 mar 0.390 0.192 0.877 2.90 6.3 9.3 -6.2 424. 40.83 yrs= mar 0.420 0.212 0.958 2.74	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421. .87 yr apr 0.474 0.189 0.858 4.98 4.8 15.9 -0.2 508. 27. apr 0.476 0.163 0.905 2.92	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499. s= 15. may 0.555 0.269 0.715 8.71 13.0 21.2 5.7 554. etev (m) may 0.532 0.176 0.960 2.97	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m) jun 0.529 0.312 0.699 10.11 30.5 27.2 11.1 643. =1546.9 jun 0.547 0.130 0.809 4.80	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573. =1204.0 jul 0.335 0.240 0.676 8.48 41.1 32.3 15.0 606. tp05 (mm)= jul 0.310 0.095 0.828 2.90	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)= aug 0.323 0.171 0.789 4.67 26.9 31.1 13.8 536. 19.0 tp6 aug 0.354 0.091 0.565 7.87	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401. 50.8 tpt sep 0.446 0.147 0.600 7.09 6.3 25.7 7.8 438. (mm) = 40 sep 0.250 0.083 0.779 3.33	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm) = 90 oct 0.363 0.112 0.720 5.92 3.3 19.1 1.5 324. 0.6 0.338 0.080 0.738 4.90	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204. .2 nov 0.286 0.112 0.868 2.54 5.1 9.9 -5.4 229.	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164. dec 0.354 0.129 0.998 2.13 2.3 4.4 -9.9 186. dec 0.489 0.220 0.921 3.40
ra(m) 236. 339. 468. 563. 625. 712. 647. 618. 518. 394. 289. 218.	prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) NEBRASKA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEVADA - EL month prw2(m) prw1(m) alfg(m) betg(m) prw1(m)	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF jan 0.326 0.122 0.998 1.75 1.5 2.6 -12.1 216. KO ala jan 0.467 0.224 0.797 4.17 2.0	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264. F eb 0.396 0.133 0.998 1.65 1.8 5.4 -9.7 295. at (deg) = 4 feb 0.533 0.216 0.928 2.31 2.3	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg)= 41 mar 0.390 0.192 0.877 2.90 6.3 9.3 -6.2 424. 40.83 yrs= mar 0.420 0.212 0.958 2.74 3.0	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421. .87 yr apr 0.474 0.189 0.858 4.98 4.8 15.9 -0.2 508. 27. apr 0.476 0.163 0.905 2.92 4.6	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499. s= 15. may 0.555 0.269 0.715 8.71 13.0 21.2 5.7 554. elev (m) may 0.532 0.176 0.960 2.97 3.0	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m) jun 0.529 0.312 0.699 10.11 30.5 27.2 11.1 643. =1546.9 jun 0.547 0.130 0.809 4.80 7.6	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573. =1204.0 jul 0.335 0.240 0.676 8.48 41.1 32.3 15.0 606. tp05(mm)= jul 0.310 0.095 0.828 2.90 11.7	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)= aug 0.323 0.171 0.789 4.67 26.9 31.1 13.8 536. 19.0 tp6 aug 0.354 0.091 0.565 7.87 2.5	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401. 50.8 tpt sep 0.446 0.147 0.600 7.09 6.3 25.7 7.8 438. (mm) = 40 sep 0.250 0.083 0.779 3.33 8.9	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm) = 90 oct 0.363 0.112 0.720 5.92 3.3 19.1 1.5 324. 0.6 0.388 0.080 0.738 4.90 3.0	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204. .2 nov 0.286 0.112 0.868 2.54 5.1 9.9 -5.4 229. nov 0.496 0.146 0.998 3.15 2.5	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164. dec 0.354 0.129 0.998 2.13 2.3 4.4 -9.9 186. dec 0.489 0.220 0.921 3.40 2.5
	prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEBRASKA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEVADA - EL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m)	0.292 0.126 0.845 2.39 1.5 2.7 -11.6 193. SCOTTSBLUF jan 0.326 0.122 0.998 1.75 1.5 2.6 -12.1 216. KO ala jan 0.467 0.224 0.797 4.17 2.0 1.4 -12.7	0.377 0.151 0.750 3.48 1.0 5.3 -9.0 264. Ef feb 0.396 0.133 0.998 1.65 1.8 5.4 -9.7 295. at (deg) = 4 feb 0.533 0.216 0.928 2.31 2.3 4.6	0.344 0.167 0.731 4.83 23.4 9.7 -4.8 355. at(deg)= 41 mar 0.390 0.192 0.877 2.90 6.3 9.3 -6.2 424. 40.83 yrs= mar 0.420 0.212 0.958 2.74 3.0 9.6	0.448 0.179 0.683 8.71 14.7 16.6 1.9 421. .87 yr apr 0.474 0.189 0.858 4.98 4.98 15.9 -0.2 508. 27. apr 0.476 0.163 0.905 2.92 4.6 15.8	0.498 0.255 0.700 11.84 36.6 22.1 7.8 499. s= 15. may 0.555 0.269 0.715 8.71 13.0 21.2 5.7 554. elev (m) may 0.532 0.176 0.960 2.97 3.0 21.4	0.453 0.273 0.635 16.26 19.6 27.5 13.3 549. elev (m) jun 0.529 0.312 0.699 10.11 30.5 27.2 11.1 643. =1546.9 jun 0.547 0.130 0.809 4.80 7.6 26.1	0.377 0.270 0.769 10.19 52.8 31.9 16.8 573. =1204.0 jul 0.335 0.240 0.676 8.48 41.1 32.3 15.0 606. tp05(mm)= jul 0.310 0.095 0.828 2.90 11.7 32.9	0.314 0.227 0.676 9.86 30.5 30.8 15.4 489. tp05(mm)= aug 0.323 0.171 0.789 4.67 26.9 31.1 13.8 536. 19.0 tp6 aug 0.354 0.091 0.565 7.87 2.5 31.7	0.435 0.154 0.705 10.36 27.4 25.7 9.6 401. 50.8 tpt sep 0.446 0.147 0.600 7.09 6.3 25.7 7.8 438. (mm) = 40 sep 0.250 0.083 0.779 3.33 8.9 26.3	0.351 0.117 0.704 7.16 3.6 19.4 2.5 300. 6(mm) = 90 oct 0.363 0.112 0.720 5.92 3.3 19.1 1.5 324. 0.6 0.338 0.080 0.738 4.90 3.0 18.8	0.309 0.108 0.813 3.33 5.1 10.3 -4.9 204. .2 nov 0.286 0.112 0.868 2.54 5.1 9.9 -5.4 229. nov 0.496 0.146 0.998 3.15 2.5 9.5 -6.8	0.268 0.112 0.785 3.20 2.0 4.2 -9.5 164. dec 0.354 0.129 0.998 2.13 2.3 4.4 -9.9 186. dec 0.489 0.220 0.921 3.40 2.5 3.8

NEVADA - LA	_		eg)= <b>36</b> .08	•	21. ele	v (m)= 65	9.0 tp05	(mm) = 26.7	tp6(mm	)= 51.1		
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.271	0.311	0.346	0.250	0.211	0.071	0.275	0.161	0.258	0.300	0.333	0.356
prw1(m)	0.061	0.065	0.055	0.048	0.025	0.022	0.067	0.082	0.040	0.041	0.056	0.047
alfg(m)	0.808	0.921	0.802	0.749	0.727	0.669	0.672	0.543	0.629	0.799	0.605	0.826
betg(m)	5.08 3.0	3.17	3.78	4.62	3.99	6.22	6.68	8.64	7.95	3.94	9.65	4.11
ri(m) tamx(m)	13.0	6.3	5.1	2.5	7.4	0.8	24.1	16.0	12.7	7.4	2.0	3.6
tamn(m)	0.6	16.7 3.7	20.5	25.9	31.1	37.2	40.8	39.6	35.7	27.6	19.5	14.5
ra(m)	277.	384.	6.7 519.	11.4 621.	15.7	20.1	24.2	23.1	18.4	11.7	4.8	1.9
NEVADA - RE			39.50 yrs		702.	748.	675.	627.	551.	429.	318.	258.
month	jan	feb	mar	- ю. арг	elev (m)= may	-1340.2 jun	iul	22.9 tp6				
prw2(m)	0.496	0.454	0.380	0.349	0.414	0.386	0.294	aug 0.420	sep	oct	nov	dec
prw1(m)	0.138	0.113	0.135	0.101	0.101	0.074	0.067	0.420	0.297 0.044	0.250 0.046	0.500	0.484
alfg(m)	0.728	0.748	0.838	0.721	0.663	0.942	0.998	0.900	0.960	0.701	0.093 0.813	0.138
betg(m)	6.99	6.55	3.81	4.62	6.43	3.51	2.41	2.72	4.01	5.92	4.22	0.718 6.73
ri(m)	4.1	3.0	2.8	1.8	3.0	2.0	5.8	9.4	3.0	3.8	3.0	4.1
tamx(m)	7.6	10.5	13.6	18.7	22.9	27.1	33.2	32.3	27.9	21.2	13.9	8.4
tamn(m)	-8.6	-5.8	-4.1	-0.9	2.9	5.6	8.5	7.1	3.7	-0.4	-4.8	-7.2
ra(m)	223.	316.	374.	551.	615.	691.	760.	681.	510.	357.	248.	182.
NEVADA - WI	NNEMUCCA	alat(d	deg)= 40.9	0 yrs=	87. ele	v (m)=13	10.3 tp05	5(mm) = 19.			2401	102.
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.467	0.426	0.443	0.351	0.448	0.554	0.243	0.289	0.340	0.385	0.496	0.473
prw1(m)	0.198	0.177	0.153	0.146	0.147	0.113	0.053	0.052	0.058	0.087	0.149	0.193
alfg(m)	0.928	0.961	0.998	0.786	0.899	0.718	0.787	0.759	0.783	0.761	0.998	0.930
betg(m)	3.12	2.92	2.39	4.37	3.51	5.69	2.69	4.88	3.61	4.55	3.12	3.02
ri(m)	3.3	2.8	2.5	4.6	5.3	8.6	3.0	8.1	4.8	6.9	2.5	3.3
tamx(m)	3.0	6.7	10.3	16.3	21.8	26.7	33.3	31.3	25.2	18.1	10.2	4.2
tamn(m)	-7.7 236.	-3.9 339.	-2.1 468.	0.1	4.7 625.	8.8	13.6	10.6	5.8	0.4	-3.9	-6.4
ra(m)	230.			563.	6/5	/12					200	240
						712.	647.	618.	518.	394.	289.	218.
NEW HAMPSHI	RE - CONCC	ORD al	at(deg)=	3.20 y	rs= 87.	el <b>e</b> v (m	)= 103.3	tp05(mm) =	49.5 tp	6(mm)= 10	9.2	
NEW HAMPSHI month	RE - CONCC jan	)RD al feb	at(deg)= 4	3.20 y apr	rs= 87. may	el <b>e</b> v (m jun	)= 103.3 jul	tp05(mm)= aug	49.5 tp	%6(mm)= 10 oct	9.2 nov	dec
NEW HAMPSHI month prw2(m)	RE - CONCO jan 0.405	ORD al feb 0.396	at(deg)= 4 mar 0.459	3.20 y apr 0.441	rs= 87. may 0.463	elev (m jun 0.457	)= 103.3 jut 0.368	tp05(mm)= aug 0.403	49.5 tp sep 0.409	o6(mm)= 10 oct 0.422	09.2 nov 0.494	dec 0.461
NEW HAMPSHI month prw2(m) prw1(m)	RE - CONCO jan 0.405 0.300	0RD al feb 0.396 0.307	at(deg)= 4 mar 0.459 0.295	43.20 yr apr 0.441 0.321	rs= 87. may 0.463 0.317	elev (m jun 0.457 0.296	)= 103.3 jul 0.368 0.298	tp05(mm)= aug 0.403 0.295	49.5 tp sep 0.409 0.241	o6(mm)= 10 oct 0.422 0.211	09.2 nov 0.494 0.333	dec 0.461 0.293
NEW HAMPSHI month prw2(m) prw1(m) alfg(m)	RE - CONCO jan 0.405 0.300 0.774	feb 0.396 0.307 0.800	mar 0.459 0.295 0.809	apr 0.441 0.321 0.873	rs= 87. may 0.463 0.317 0.763	elev (m jun 0.457 0.296 0.723	)= 103.3 jut 0.368 0.298 0.741	tp05(mm)= aug 0.403 0.295 0.654	49.5 tp sep 0.409 0.241 0.718	o6(mm)= 10 oct 0.422 0.211 0.710	nov 0.494 0.333 0.701	dec 0.461 0.293 0.670
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m)	RE - CONCO jan 0.405 0.300 0.774 7.98	feb 0.396 0.307 0.800 8.81	at(deg)= 4 mar 0.459 0.295 0.809 8.13	apr 0.441 0.321 0.873 8.05	rs= 87. may 0.463 0.317 0.763 8.18	elev (m jun 0.457 0.296 0.723 9.78	)= 103.3 jut 0.368 0.298 0.741 10.34	tp05(mm)= aug 0.403 0.295 0.654 11.91	49.5 tp sep 0.409 0.241 0.718 12.88	oct 0.422 0.211 0.710 13.11	nov 0.494 0.333 0.701 12.01	dec 0.461 0.293 0.670 12.06
NEW HAMPSHI month prw2(m) prw1(m) alfg(m)	RE - CONCO jan 0.405 0.300 0.774	feb 0.396 0.307 0.800 8.81 4.6	at(deg)= 4 mar 0.459 0.295 0.809 8.13 7.4	apr 0.441 0.321 0.873 8.05 10.2	ns= 87. may 0.463 0.317 0.763 8.18 10.7	elev (m jun 0.457 0.296 0.723 9.78 24.9	)= 103.3 jut 0.368 0.298 0.741 10.34 18.0	tp05(mm)= aug 0.403 0.295 0.654 11.91 29.5	49.5 tp sep 0.409 0.241 0.718 12.88 11.9	06(mm)= 10 0ct 0.422 0.211 0.710 13.11 8.1	nov 0.494 0.333 0.701 12.01 7.6	dec 0.461 0.293 0.670 12.06 8.6
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6	feb 0.396 0.307 0.800 8.81	at(deg)= 4 mar 0.459 0.295 0.809 8.13	apr 0.441 0.321 0.873 8.05	ns= 87. may 0.463 0.317 0.763 8.18 10.7 20.4	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1	tp05(mm)= aug 0.403 0.295 0.654 11.91 29.5 26.8	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4	06(mm)= 10 0ct 0.422 0.211 0.710 13.11 8.1 16.5	nov 0.494 0.333 0.701 12.01 7.6 8.6	dec 0.461 0.293 0.670 12.06 8.6 1.3
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6 -0.2	nd feb feb 0.396 0.307 0.800 8.81 4.6 0.3	at(deg)= 4 mar 0.459 0.295 0.809 8.13 7.4 6.1	3.20 y apr 0.441 0.321 0.873 8.05 10.2 13.1	ns= 87. may 0.463 0.317 0.763 8.18 10.7	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1	)= 103.3 jut 0.368 0.298 0.741 10.34 18.0 28.1 12.9	tp05(mm)= aug 0.403 0.295 0.654 11.91 29.5 26.8 11.6	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3	06(mm)= 10 0ct 0.422 0.211 0.710 13.11 8.1 16.5 1.3	nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m)	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122.	ned al feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223.	at(deg)= 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243.	33.20 y apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402.	may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453.	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489.	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503.	tp05(mm)= aug 0.403 0.295 0.654 11.91 29.5 26.8 11.6 450.	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354.	0.6(mm)= 10 0.422 0.211 0.710 13.11 8.1 16.5 1.3 258.	nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173.	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128.
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m)	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122.	feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb	at(deg)= 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243.	33.20 y apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402.	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489.	)= 103.3 jut 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503. etev (m)	tp05(mm) = aug 0.403 0.295 0.654 11.91 29.5 26.8 11.6 450.	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05(mm)=	0.422 0.211 0.710 13.11 8.1 16.5 1.3 258.	09.2 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173. >>(mm)= 10	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128.
NEW HAMPSHI  month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEW HAMPSHII month prw2(m)	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122. RE - MOUNT jan 0.648	feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb 0.673	mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243.	3.20 y apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402. at(deg)=	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453.	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489. s= 25.	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503.	tp05 (mm) = aug 0.403 0.295 0.654 11.91 29.5 26.8 11.6 450. =1908.7 aug	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05(mm)= sep	0.422 0.211 0.710 13.11 8.1 16.5 1.3 258.	nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173. \(\delta(\text{imn}) = 10\)	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128.
NEW HAMPSHI  month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) ra(m) NEW HAMPSHII month prw2(m) prw1(m)	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122. RE - MOUNT jan 0.648 0.524	feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb 0.673 0.569	at(deg)= 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243.	33.20 y apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402. at(deg)= apr	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453. 44.27 yr may	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489. s= 25. jun	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503. elev (m) jul	tp05(mm) = aug 0.403 0.295 0.654 11.91 29.5 26.8 11.6 450.	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05(mm) = sep 0.634	0.6(mm)= 10 0.422 0.211 0.710 13.11 8.1 16.5 1.3 258. 43.7 tp	09.2 nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173. x6(mm)= 10 nov 0.726	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128.
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) NEW HAMPSHI month prw2(m) prw1(m) alfg(m)	RE - CONCC jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122. RE - MOUNT jan 0.648 0.524 0.789	feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb 0.673 0.569 0.619	at(deg)= 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243. ON ala	33.20 y apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402. at(deg)= apr 0.710	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453. 44.27 yr may 0.632	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489. s= 25. jun 0.628	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503. elev (m) jul 0.616	tp05(mm) = aug 0.403 0.295 0.654 11.91 29.5 26.8 11.6 450. =1908.7 aug 0.638	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05(mm)= sep 0.634 0.409	0.6(mm)= 10 0.422 0.211 0.710 13.11 8.1 16.5 1.3 258. 43.7 tp 0ct 0.646 0.313	09.2 nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173. x6(mm)= 10 nov 0.726 0.495	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128.
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEW HAMPSHII month prw2(m) prw1(m) alfg(m) betg(m)	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122. RE - MOUNT jan 0.648 0.524 0.789 9.91	feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb 0.673 0.569 0.619 18.47	at(deg)= 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243. ON ala mar 0.724 0.441 0.735 11.76	43.20 yr apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402. at(deg)= apr 0.710 0.436 0.822 9.93	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453. 44.27 yr may 0.632 0.397	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489. s= 25. jun 0.628 0.439 0.972 10.34	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503. elev (m) jul 0.616 0.473	tp05 (mm) = aug 0.403 0.295 0.654 11.91 29.5 26.8 11.6 450. = 1908.7 aug 0.638 0.416	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05(mm) = sep 0.634	0.6(mm)= 10 0.422 0.211 0.710 13.11 8.1 16.5 1.3 258. 43.7 tp	nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173. x(m) = 10 nov 0.726 0.495 0.734	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128. 0.714 0.537 0.695
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	RE - CONCC jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122. RE - MOUNT jan 0.648 0.524 0.789 9.91	feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb 0.673 0.569 0.619 18.47 0.0	at(deg)= 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243. ON ala mar 0.724 0.441 0.735 11.76 0.0	33.20 y apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402. at(deg)= apr 0.710 0.436 0.822	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453. 44.27 yr may 0.632 0.397 0.794	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489. s= 25. jun 0.628 0.439 0.972	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503. elev (m) jul 0.616 0.473 0.849	tp05 (mm) = aug	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05(mm)= sep 0.634 0.409 0.787	0.6(mm)= 10 0.422 0.211 0.710 13.11 8.1 16.5 1.3 258. 43.7 tp oct 0.646 0.313 0.808	09.2 nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173. 0.6(mm) = 10 nov 0.726 0.495 0.734 14.00	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128. 14.1 dec 0.714 0.537 0.695 14.25
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamn(m) ra(m) NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122. RE - MOUNT jan 0.648 0.524 0.789 9.91 0.0	feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb 0.673 0.569 0.619 18.47 0.0 -10.1	at(deg)= 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243. ON ala mar 0.724 0.441 0.735 11.76 0.0 -6.9	3.20 y apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402. at(deg)= apr 0.710 0.436 0.822 9.3 0.0 -1.8	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453. 44.27 yr may 0.632 0.397 0.794 11.94 0.0 5.3	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489. s= 25. jun 0.628 0.439 0.972 10.34 0.0	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503. elev (m) jul 0.616 0.473 0.849 12.55	tp05 (mm) = aug 0.403 0.295 0.654 11.91 29.5 26.8 11.6 450. = 1908.7 aug 0.638 0.416 0.893 13.21	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05 (mm) = sep 0.634 0.409 0.787 13.61	oct 0.422 0.211 0.710 13.11 8.1 16.5 1.3 258. 43.7 tp oct 0.646 0.313 0.808 14.00	nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173. x(m) = 10 nov 0.726 0.495 0.734	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128. 14.1 dec 0.714 0.537 0.695 14.25 0.0
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamn(m) ra(m) NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamx(m) tamx(m)	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122. RE - MOUNT jan 0.648 0.524 0.789 9.91 0.0 -9.9 -19.6	feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb 0.673 0.569 0.619 18.47 0.0 -10.1 -19.4	at(deg) = 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243. ON mar 0.724 0.441 0.735 11.76 0.0 -6.9 -15.3	3.20 y apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402. at(deg)= apr 0.710 0.436 0.822 9.93 0.0 -1.8 -9.3	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453. 44.27 yr may 0.632 0.397 0.794 11.94 0.0 5.3 -1.7	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489. s= 25. jun 0.628 0.439 0.972 10.34 0.0	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503. elev (m) jul 0.616 0.473 0.849 12.55 0.0 12.8 6.3	tp05 (mm) = aug 0.403 0.295 0.654 11.91 29.5 26.8 11.6 450. =1908.7 aug 0.638 0.416 0.893 13.21 0.0	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05(mm)= sep 0.634 0.409 0.787 13.61 0.0	0.422 0.211 0.710 13.11 8.1 16.5 1.3 258. 43.7 tp oct 0.646 0.313 0.808 14.00 0.0	09.2 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173. 0.6(mm)= 10 nov 0.726 0.495 0.734 14.00 0.0 -3.1	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128. 14.1 dec 0.714 0.537 0.695 14.25 0.0 -8.4
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEW HAMPSHII month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamx(m) tamx(m)	RE - CONCC jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122. RE - MOUNT jan 0.648 0.524 0.789 9.91 0.0 -9.9 -19.6 117.	feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb 0.673 0.569 0.619 18.47 0.0 -10.1 -19.4 218.	at(deg) = 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243. ON ala mar 0.724 0.441 0.735 11.76 0.0 -6.9 -15.3 238.	43.20 yi apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402. at (deg) = apr 0.710 0.436 0.822 9.93 0.0 -1.8 -9.3 410.	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453. 44.27 yr may 0.632 0.397 0.794 11.94 0.0 5.3 -1.7 455.	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489. s= 25. jun 0.628 0.439 0.972 10.34 0.0 10.3 3.4 505.	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503. elev (m) jul 0.616 0.473 0.849 12.55 0.0 12.8 6.3 500.	tp05 (mm) = aug	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05(mm)= sep 0.634 0.409 0.787 13.61 0.0 8.4 1.7 290.	0.422 0.211 0.710 13.11 8.1 16.5 1.3 258. 43.7 poct 0.646 0.313 0.808 14.00 0.0 3.3	09.2  nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173.  x5(mm) = 10 nov 0.726 0.495 0.734 14.00 0.0	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128. 14.1 dec 0.714 0.537 0.695 14.25 0.0
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEW HAMPSHII month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) NEW JERSEY	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122. RE - MOUNT jan 0.648 0.524 0.789 9.91 0.0 -9.9 -19.6 117.	ned feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb 0.673 0.569 0.619 18.47 0.0 -10.1 -19.4 218. alat(d	at(deg) = 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243. ON ala mar 0.724 0.441 0.735 11.76 0.0 -6.9 -15.3 238. eg) = 40.70	43.20 yr apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402. at (deg) = apr 0.710 0.436 0.822 9.93 0.0 -1.8 -9.3 410. yrs= 1	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453. 44.27 yr may 0.632 0.397 0.794 11.94 0.0 5.3 -1.7 455.	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489. s= 25. jun 0.628 0.439 0.972 10.34 0.0 10.3 3.4 505. v (m)=	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503. elev (m) jul 0.616 0.473 0.849 12.55 0.0 12.8 6.3 500.	tp05(mm) = aug	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05(mm)= sep 0.634 0.409 0.787 13.61 0.0 8.4 1.7 290.	0.422 0.211 0.710 13.11 8.1 16.5 1.3 258. 43.7 tp oct 0.646 0.313 0.808 14.00 0.0	09.2 nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173. 06(mm)= 10 nov 0.726 0.495 0.734 14.00 0.0 -3.1 -10.4	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128. 0.714 0.537 0.695 14.25 0.0 -8.4 -17.2
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEW HAMPSHII month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) NEW JERSEY month	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122. RE - MOUNT jan 0.648 0.524 0.789 9.91 0.0 -9.9 -19.6 117. - NEWARK jan	nRD al feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb 0.673 0.569 0.619 18.47 0.0 -10.1 -19.4 218. alat(d feb	at(deg) = 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243. ON mar 0.724 0.441 0.735 11.76 0.0 -6.9 -15.3 238. eg) = 40.70 mar	3.20 yr apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402. at (deg) = apr 0.710 0.436 0.822 9.93 0.0 -1.8 -9.3 410. yrs= 1 apr	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453. 44.27 yr may 0.632 0.397 0.794 11.94 0.0 5.3 7.1.7 455.   3. elemay	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489. s= 25. jun 0.628 0.439 0.972 10.34 0.0 10.3 3.4 505. v (m)= jun	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503. elev (m) jul 0.616 0.473 0.849 12.55 0.0 12.8 6.3 500. 2.1 tp05 jul	tp05(mm) = aug 0.403 0.295 0.654 11.91 29.5 26.8 11.6 450. =1908.7 aug 0.638 0.416 0.893 13.21 0.0 11.8 5.6 459. (mm) = 61.0 aug	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05(mm)= sep 0.634 0.409 0.787 13.61 0.0 8.4 1.7 290. tp6(mm)=	0.422 0.211 0.710 13.11 8.1 16.5 1.3 258. 43.7 tp oct 0.646 0.313 0.808 14.00 0.0 3.3 -3.7 240.	09.2 nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173. 06(mm)= 10 nov 0.726 0.495 0.734 14.00 0.0 -3.1 -10.4	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128. 0.714 0.537 0.695 14.25 0.0 -8.4 -17.2
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamn(m) ra(m) NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) NEW JERSEY month prw2(m)	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122. RE - MOUNT jan 0.648 0.524 0.789 9.91 0.0 -9.9 -19.6 117. - NEWARK jan 0.437	feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb 0.673 0.569 0.619 18.47 0.0 -10.1 -19.4 218. alat(d feb 0.398	at(deg) = 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243. ON mar 0.724 0.441 0.735 11.76 0.0 -6.9 -15.3 238. eg) = 40.70	43.20 yi apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402. at(deg)= apr 0.710 0.436 0.822 9.93 0.0 -1.8 -9.3 410. yrs= 1 apr 0.463	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453. 44.27 yr may 0.632 0.397 0.794 11.94 0.0 5.3 -1.7 455. 13. eler may 0.473	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489. s= 25. jun 0.628 0.439 0.972 10.34 0.0 10.3 3.4 0.0 10.3	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503. elev (m) jul 0.616 0.473 0.849 12.55 0.0 12.8 6.3 500. 2.1 tp05 jul 0.448	tp05(mm) = aug 0.403 0.295 0.654 11.91 29.5 26.8 11.6 450. = 1908.7 aug 0.638 0.416 0.893 13.21 0.0 11.8 5.6 459. (mm) = 61.0 aug 0.432	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05(mm)= sep 0.634 0.409 0.787 13.61 0.0 8.4 1.7 290. tp6(mm)=	0.422 0.422 0.211 0.710 13.11 8.1 16.5 1.3 258. 43.7 tp oct 0.646 0.313 0.808 14.00 0.0 3.3 -3.7 240. )= 133.3 oct 0.378	09.2  nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173. 05(mm)= 10 nov 0.726 0.495 0.734 14.00 0.0 -3.1 -10.4 135.	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128. 14.1 dec 0.714 0.537 0.695 14.25 0.0 -8.4 -17.2 96. dec 0.461
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) NEW JERSEY month prw2(m) prw1(m)	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122. RE - MOUNT jan 0.648 0.524 0.789 9.91 0.0 -9.9 -19.6 117. - NEWARK jan 0.437 0.300	feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb 0.673 0.569 0.619 18.47 0.0 -10.1 -19.4 218. alat(d feb 0.398 0.313	at(deg)= 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243. ON ala mar 0.724 0.441 0.735 11.76 0.0 -6.9 -15.3 238. eg)= 40.70 mar 0.470 0.316	43.20 yi apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402. at (deg) = apr 0.710 0.436 0.822 9.93 0.0 -1.8 -9.3 410. yrs = 1 apr 0.463 0.330	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453. 44.27 yr may 0.632 0.397 0.794 11.94 0.0 5.3 -1.7 455. 13. eler may 0.473 0.297	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489. s= 25. jun 0.628 0.439 0.972 10.34 0.0 10.3 3.4 0.0 10.3 3.4 0.0 10.3	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503. elev (m) jul 0.616 0.473 0.849 12.55 0.0 12.8 6.3 500. 2.1 tp05 jul 0.448 0.254	tp05(mm) = aug 0.403 0.295 0.654 11.91 29.5 26.8 11.6 450. = 1908.7 aug 0.638 0.416 0.893 13.21 0.0 11.8 5.6 459. (mm) = 61.0 aug 0.432 0.260	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05(mm)= sep 0.634 0.409 0.787 13.61 0.0 8.4 1.7 290. tp6(mm)= sep 0.426 0.211	0.422 0.422 0.211 0.710 13.11 8.1 16.5 1.3 258. 43.7 tp oct 0.646 0.313 0.808 14.00 0.0 3.3 -3.7 240. )= 133.3 oct 0.378 0.189	09.2  nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173. 06(mm) = 10 nov 0.726 0.495 0.734 14.00 0.0 -3.1 -10.4 135.  nov 0.450 0.299	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128. 94.1 dec 0.714 0.537 0.695 14.25 0.0 -8.4 -17.2 96. dec
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamn(m) ra(m) NEW HAMPSHI month prw2(m) prw1(m) alfg(m) tamx(m) tamn(m) ri(m) tamx(m) tamn(m) prw1(m) prw1(m) alfg(m) alfg(m) alfg(m) prw1(m) alfg(m) prw2(m) prw1(m) alfg(m)	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122. RE - MOUNT jan 0.648 0.524 0.789 9.91 0.0 -9.9 -19.6 117. NEWARK jan 0.437 0.300 0.781	feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb 0.673 0.569 0.619 18.47 0.0 -10.1 -19.4 218. alat(d feb 0.398 0.313 0.763	at(deg) = 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243. ON ala mar 0.724 0.441 0.735 11.76 0.0 -6.9 -15.3 238. eg) = 40.70 mar 0.316 0.704	3.20 yi apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402. at(deg) = apr 0.710 0.436 0.822 9.93 0.0 -1.8 -9.3 410. yrs= 1 apr 0.463 0.330 0.738	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453. 44.27 yr may 0.632 0.397 0.794 11.94 0.0 5.3 -1.7 455. 13. elev may 0.473 0.297 0.719	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489. s= 25. jun 0.628 0.439 0.972 10.34 0.0 10.3 3.4 505. v (m)= jun 0.407 0.278 0.736	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503. elev (m) jul 0.616 0.473 0.849 12.55 0.0 12.8 6.3 500. 2.1 tp05 jul 0.448 0.254 0.630	tp05(mm) = aug	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05(mm)= sep 0.634 0.409 0.787 13.61 0.0 8.4 1.7 290. tp6(mm)= sep 0.426 0.211 0.600	0.422 0.422 0.211 0.710 13.11 8.1 16.5 1.3 258. 43.7 tp oct 0.646 0.313 0.808 14.00 0.0 3.3 -3.7 240. )= 133.3 oct 0.378 0.189 0.691	09.2  nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173. x5(mm) = 10 nov 0.726 0.495 0.734 14.00 0.0 -3.1 -10.4 135.  nov 0.450 0.299 0.720	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128. 14.1 dec 0.714 0.537 0.695 14.25 0.0 -8.4 -17.2 96. dec 0.461
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEW JERSEY month prw2(m) prw1(m) alfg(m) betg(m)	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122. RE - MOUNT jan 0.648 0.524 0.789 9.91 0.0 -9.9 -19.6 117. - NEWARK jan 0.437 0.300 0.781 7.90	RD al feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb 0.673 0.569 0.619 18.47 0.0 -10.1 -19.4 218. alat(d feb 0.398 0.313 0.763 10.64	at(deg) = 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243. ON ala mar 0.724 0.441 0.741 0.00 -6.9 -15.3 238. eg) = 40.70 mar 0.470 0.316 0.704 12.73	3.20 yi apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402. at(deg) = apr 0.710 0.436 0.822 9.93 0.0 -1.8 -9.3 410. yrs= 1 apr 0.463 0.330 0.738 11.02	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453. 44.27 yr may 0.632 0.397 0.794 11.94 0.0 5.3 -1.7 455. [3. ele may 0.473 0.297 0.719 10.08	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489. s= 25. jun 0.628 0.439 0.972 10.34 0.0 10.3 3.4 505. v (m)= jun 0.407 0.278 0.736 9.58	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503. elev (m) jul 0.616 0.473 0.849 12.55 0.0 12.8 6.3 500. 2.1 tp05 jul 0.448 0.254 0.630 15.34	tp05(mm) = aug 0.403 0.295 0.654 11.91 29.5 26.8 11.6 450. =1908.7 aug 0.638 0.416 0.893 13.21 0.0 11.8 5.6 459. (mm) = 61.0 aug 0.432 0.260 0.616 17.30	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05(mm)= sep 0.634 0.409 0.787 13.61 0.0 8.4 1.7 290. tp6(mm) sep 0.426 0.211 0.600 16.74	0.422 0.422 0.211 0.710 13.11 8.1 16.5 1.3 258. 43.7 pp oct 0.646 0.313 0.808 14.00 0.0 3.3 -3.7 240. )= 133.3 oct 0.189 0.691 14.83	09.2  nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173. 06(mm) = 10 nov 0.726 0.495 0.734 14.00 0.0 -3.1 -10.4 135.  nov 0.450 0.299 0.720 11.40	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128. 0.714 0.537 0.695 14.25 0.0 -8.4 -17.2 96. dec 0.461 0.292 0.738 10.69
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEW JERSEY month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122. RE - MOUNT jan 0.648 0.524 0.789 9.91 0.0 -9.9 -19.6 117. - NEWARK jan 0.437 0.300 0.781 7.90 7.9	RD al feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb 0.673 0.569 0.619 18.47 0.0 -10.1 -19.4 218. alat(d feb 0.398 0.313 0.763 10.64 11.7	at(deg) = 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243. ON ala 0.724 0.441 0.735 11.76 0.0 -6.9 -15.3 238. eg) = 40.70 mar 0.470 0.316 0.704 12.73 7.9	3.20 yi apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402. at(deg) = apr 0.710 0.436 0.822 9.93 0.0 -1.8 -9.3 410. yrs= 1 apr 0.463 0.330 0.738 11.02 15.2	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453. 44.27 yr may 0.632 0.397 0.794 11.94 0.0 5.3 -1.7 455. 13. ele may 0.473 0.297 0.719 10.08 20.6	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489. s= 25. jun 0.628 0.439 0.972 10.34 0.0 10.3 3.4 505. v (m)= jun 0.407 0.278 0.736 9.58 20.1	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503. elev (m) jul 0.616 0.473 0.849 12.8 6.3 500. 2.1 tp05 jul 0.448 0.254 0.630 15.34 22.9	tp05(mm) = aug 0.403 0.295 0.654 11.91 29.5 26.8 11.6 450. =1908.7 aug 0.638 0.416 0.893 13.21 0.0 11.8 5.6 459. (mm) = 61.0 aug 0.432 0.260 0.616 17.30 37.8	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05(mm)= sep 0.634 0.409 0.787 13.61 0.0 8.4 1.7 290. tp6(mm) sep 0.426 0.211 0.600 16.74 21.6	0.422 0.422 0.211 0.710 13.11 8.1 16.5 1.3 258. 43.7 tp oct 0.646 0.313 0.808 14.00 0.0 3.3 -3.7 240. )= 133.3 oct 0.499 0.189 0.189 0.189 14.83 15.0	09.2  nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173. 06(mm)= 10 nov 0.726 0.495 0.734 14.00 0.0 -3.1 -10.4 135.  nov 0.450 0.299 0.720 11.40 25.4	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128. 0.714 0.537 0.695 14.25 0.0 -8.4 -17.2 96. dec 0.461 0.292 0.738 10.69 10.69
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) NEW HAMPSHI month prw2(m) prw1(m) alfg(m) tamx(m) tamx(m) tamn(m) ra(m) NEW JERSEY month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m)	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122. RE - MOUNT jan 0.648 0.524 0.789 9.91 0.0 -9.9 -19.6 117. - NEWARK jan 0.437 0.300 0.781 7.90 7.9 4.2	RD al feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb 0.673 0.569 0.619 18.47 0.0 -10.1 -19.4 218. alat(d feb 0.398 0.313 0.763 10.64 11.7 4.8	at(deg) = 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243. ON ala 0.724 0.441 0.735 11.76 0.0 -6.9 -15.3 238. eg) = 40.70 mar 0.470 0.316 0.704 12.73 7.9 9.3	3.20 yi apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402. at (deg) = apr 0.710 0.436 0.822 9.93 0.0 -1.8 -9.3 410. yrs= 1 apr 0.463 0.338 0.338 0.338 11.02 15.2 16.1	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453. 44.27 yr may 0.632 0.397 0.794 11.94 0.0 5.3 -1.7 455. 13. elemay 0.473 0.297 0.719 10.08 20.6 22.3	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489. s= 25. jun 0.628 0.439 0.972 10.34 0.0 10.3 3.4 505. v (m)= jun 0.407 0.278 0.736 9.58 20.1 27.4	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503. elev (m) jul 0.616 0.473 0.849 12.55 0.0 12.8 6.3 500. 2.1 tp05 jul 0.448 0.254 0.630 15.34 22.9 30.1	tp05(mm) = aug	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05(mm)= sep 0.634 0.409 0.787 13.61 0.0 8.4 1.7 290. tp6(mm) sep 0.426 0.211 0.600 16.74 21.6 25.0	0.6(mm)= 10 0.422 0.211 0.710 13.11 8.1 16.5 1.3 258. 43.7 tp 0ct 0.646 0.313 0.808 14.00 0.0 3.3 -3.7 240. )= 133.3 0ct 0.378 0.189 0.691 14.83 15.0 19.0	09.2  nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173. 06(mm)= 10 nov 0.726 0.495 0.734 14.00 0.0 -3.1 -10.4 135.  nov 0.450 0.299 0.720 11.40 25.4 11.9	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128. 0.714 0.537 0.695 14.25 0.0 -8.4 -17.2 96. dec 0.461 0.292 0.738 10.69 10.292 5.6
NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) NEW HAMPSHI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEW JERSEY month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	RE - CONCO jan 0.405 0.300 0.774 7.98 4.6 -0.2 -13.0 122. RE - MOUNT jan 0.648 0.524 0.789 9.91 0.0 -9.9 -19.6 117. - NEWARK jan 0.437 0.300 0.781 7.90 7.9	RD al feb 0.396 0.307 0.800 8.81 4.6 0.3 -12.3 223. WASHINGT feb 0.673 0.569 0.619 18.47 0.0 -10.1 -19.4 218. alat(d feb 0.398 0.313 0.763 10.64 11.7	at(deg) = 4 mar 0.459 0.295 0.809 8.13 7.4 6.1 -6.3 243. ON ala 0.724 0.441 0.735 11.76 0.0 -6.9 -15.3 238. eg) = 40.70 mar 0.470 0.316 0.704 12.73 7.9	3.20 yi apr 0.441 0.321 0.873 8.05 10.2 13.1 -0.9 402. at(deg) = apr 0.710 0.436 0.822 9.93 0.0 -1.8 -9.3 410. yrs= 1 apr 0.463 0.330 0.738 11.02 15.2	rs= 87. may 0.463 0.317 0.763 8.18 10.7 20.4 4.8 453. 44.27 yr may 0.632 0.397 0.794 11.94 0.0 5.3 -1.7 455. 13. ele may 0.473 0.297 0.719 10.08 20.6	elev (m jun 0.457 0.296 0.723 9.78 24.9 25.5 10.1 489. s= 25. jun 0.628 0.439 0.972 10.34 0.0 10.3 3.4 505. v (m)= jun 0.407 0.278 0.736 9.58 20.1	)= 103.3 jul 0.368 0.298 0.741 10.34 18.0 28.1 12.9 503. elev (m) jul 0.616 0.473 0.849 12.8 6.3 500. 2.1 tp05 jul 0.448 0.254 0.630 15.34 22.9	tp05(mm) = aug 0.403 0.295 0.654 11.91 29.5 26.8 11.6 450. =1908.7 aug 0.638 0.416 0.893 13.21 0.0 11.8 5.6 459. (mm) = 61.0 aug 0.432 0.260 0.616 17.30 37.8	49.5 tp sep 0.409 0.241 0.718 12.88 11.9 22.4 7.3 354. tp05(mm)= sep 0.634 0.409 0.787 13.61 0.0 8.4 1.7 290. tp6(mm) sep 0.426 0.211 0.600 16.74 21.6	0.422 0.422 0.211 0.710 13.11 8.1 16.5 1.3 258. 43.7 tp oct 0.646 0.313 0.808 14.00 0.0 3.3 -3.7 240. )= 133.3 oct 0.499 0.189 0.189 0.189 14.83 15.0	09.2  nov 0.494 0.333 0.701 12.01 7.6 8.6 -3.4 173. 06(mm)= 10 nov 0.726 0.495 0.734 14.00 0.0 -3.1 -10.4 135.  nov 0.450 0.299 0.720 11.40 25.4	dec 0.461 0.293 0.670 12.06 8.6 1.3 -10.2 128. 0.714 0.537 0.695 14.25 0.0 -8.4 -17.2 96. dec 0.461 0.292 0.738 10.69 10.69

										4.		
	- ALBUQUER		alat(deg)=		yrs= 32.		m)=1618.8	tp05(mm)=			77.5	
month		feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.263	0.392	0.346	0.264	0.346	0.412	0.395	0.429	0.320	0.378	0.339	0.350
prw1(m)	0.080	0.090	0.095 0.964	0.073	0.094	0.077 0.718	0.253	0.240	0.129	0.090	0.070	0.093
alfg(m)	0.840 2.84	0.998 2.57	3.15	0.712 5.21	0.699 3.53	5.41	0.744 5.31	0.804 4.85	0.836	0.739	0.998	0.858
betg(m)	4.3	2.3	3.0	7.6	12.7	24.9	13.0	14.5	4.62 9.1	7.47 17.5	2.82 3.0	3.96
ri(m) tamx(m)	8.0	11.2	14.9	20.6	25.7	31.4	32.9	31.1	27.9	21.5	13.4	4.1 9.1
tamn(m)	-4.7	-2.5	0.4	5.7	11.1	16.2	18.8	17.9	14.2	7.4	-0.5	-3.6
ra(m)	303.	386.	511.	618.	686.	726.	683.	626.	554.	438.	334.	276.
NEW MEXICO			(deg) = 33.3					5(mm)= 52.		mm)= 92.		2,0.
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.314	0.352	0.358	0.286	0.329	0.307	0.408	0.421	0.384	0.531	0.360	0.359
prw1(m)	0.063	0.097	0.072	0.056	0.091	0.117	0.197	0.173	0.125	0.078	0.053	0.070
alfg(m)	0.830	0.858	0.810	0.740	0.641	0.612	0.664	0.683	0.593	0.596	0.768	0.779
betg(m)	4.98	4.06	4.32	5.92	6.96	8.38	8.38	8.41	9.32	10.97	4.47	4.65
ri(m)	1.5	2.3	2.8	7.4	32.0	26.7	45.7	49.3	23.4	19.6	5.8	1.0
tamx(m)	12.8	15.8	20.4	26.1	30.4	35.3	35.2	34.1	30.6	24.9	18.3	13.8
tamn(m)	-6.3	-4.6	-1.1	3.9	9.6	14.8	16.5	15.4	11.3	5.1	-2.9	-6.1
ra(m)	313.	410.	527.	634.	694.	709.	646.	620.	556.	440.	352.	293.
NEW YORK -			g)= 42.58	yrs= 25		(m) = 83			•	= 114.3		
month	jan 0.456	feb 0.441	mar 0.471	apr 0.519	may 0.516	jun 0.461	jul 0 <b>.391</b>	aug 0.358	sep 0.360	oct 0.425	0 /7/	dec 0.494
prw2(m) prw1(m)	0.360	0.365	0.331	0.331	0.336	0.310	0.303	0.322	0.254	0.425	0.474 0.340	0.339
alfg(m)	0.755	0.683	0.747	0.708	0.673	0.741	0.695	0.705	0.672	0.709	0.788	0.673
betg(m)	5.89	7.47	8.20	8.46	9.45	8.56	9.80	10.13	14.12	11.73	7.92	9.09
ri(m)	11.2	5.3	14.5	5.6	16.5	33.0	50.3	18.8	21.8	15.2	10.7	5.6
tamx(m)	-0.6	0.3	5.5	13.7	20.8	25.9	28.7	27.4	22.7	16.6	8.6	1.4
tamn(m)	-9.8	-9.6	-4.4	2.1	7.9	13.2	15.8	14.7	10.2	4.3	-0.8	-7.5
ra(m)	135.	205.	278.	343.	418.	453.	446.	402.	304.	223.	133.	109.
NEW YORK -	RUFFALO	0100/0	eg) = 42.93	yrs= 2	9 010	(m) = 21	/ O +=05/	/1 0	4-61-	1)= 91.4		
11 E W   01111	DOTTALO	atatto	eg)= 42.93	y15- 2	o. eter	(111)- 21		mm) = 41.9	tp6(mm	1) = 91.4		
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
month prw2(m)	jan 0.704	feb 0.658	mar 0.613	apr 0.595	may 0.483	jun 0.397	jul 0 <b>.363</b>	aug 0.446	sep 0.480	oct 0.555	0.630	0.699
month prw2(m) prw1(m)	jan 0.704 0.578	feb 0.658 0.485	mar 0.613 0.421	apr 0.595 0.409	may 0.483 0.339	jun 0.397 0.276	jul 0.363 0.283	aug 0.446 0.300	sep 0.480 0.270	oct 0.555 0.239	0.630 0.412	0.699 0.533
month prw2(m) prw1(m) alfg(m)	jan 0.704 0.578 0.779	feb 0.658 0.485 0.728	mar 0.613 0.421 0.752	apr 0.595 0.409 0.783	may 0.483 0.339 0.757	jun 0.397 0.276 0.785	jul 0.363 0.283 0.719	aug 0.446 0.300 0.754	sep 0.480 0.270 0.728	oct 0.555 0.239 0.711	0.630 0.412 0.824	0.699 0.533 0.751
month prw2(m) prw1(m) alfg(m) betg(m)	jan 0.704 0.578 0.779 4.78	feb 0.658 0.485 0.728 5.16	mar 0.613 0.421 0.752 5.99	apr 0.595 0.409 0.783 6.86	may 0.483 0.339 0.757 8.03	jun 0.397 0.276 0.785 7.80	jul 0.363 0.283 0.719 10.64	aug 0.446 0.300 0.754 11.71	sep 0.480 0.270 0.728 10.34	oct 0.555 0.239 0.711 9.50	0.630 0.412 0.824 7.29	0.699 0.533 0.751 5.21
month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	jan 0.704 0.578 0.779 4.78 4.8	feb 0.658 0.485 0.728 5.16 6.1	mar 0.613 0.421 0.752 5.99 9.7	apr 0.595 0.409 0.783 6.86 19.8	may 0.483 0.339 0.757 8.03 17.8	jun 0.397 0.276 0.785 7.80 17.5	jul 0.363 0.283 0.719 10.64 24.1	aug 0.446 0.300 0.754 11.71 35.6	sep 0.480 0.270 0.728 10.34 26.7	oct 0.555 0.239 0.711 9.50 12.4	0.630 0.412 0.824 7.29 7.4	0.699 0.533 0.751 5.21 4.8
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	jan 0.704 0.578 0.779 4.78 4.8 -0.7	feb 0.658 0.485 0.728 5.16 6.1 -0.6	mar 0.613 0.421 0.752 5.99 9.7 3.7	apr 0.595 0.409 0.783 6.86 19.8 11.6	may 0.483 0.339 0.757 8.03 17.8 18.6	jun 0.397 0.276 0.785 7.80 17.5 23.9	jul 0.363 0.283 0.719 10.64 24.1 26.7	aug 0.446 0.300 0.754 11.71 35.6 25.9	sep 0.480 0.270 0.728 10.34 26.7 21.9	oct 0.555 0.239 0.711 9.50 12.4 15.6	0.630 0.412 0.824 7.29 7.4 8.1	0.699 0.533 0.751 5.21 4.8 1.3
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	jan 0.704 0.578 0.779 4.78 4.8 -0.7	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2	mar 0.613 0.421 0.752 5.99 9.7 3.7	apr 0.595 0.409 0.783 6.86 19.8 11.6	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2	0.630 0.412 0.824 7.29 7.4 8.1	0.699 0.533 0.751 5.21 4.8 1.3
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m)	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179.	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298.	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282.	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498.	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558.	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558.	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490.	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274.	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285.	0.630 0.412 0.824 7.29 7.4 8.1 -0.2	0.699 0.533 0.751 5.21 4.8 1.3
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEW YORK	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7 121. NEW YORK	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179.	mar 0.613 0.421 0.752 5.99 9.7 3.7	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282. yrs=1	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498.	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558.ev (m)=	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558.	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490.	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274. tp6(m	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285.	0.630 0.412 0.824 7.29 7.4 8.1 -0.2	0.699 0.533 0.751 5.21 4.8 1.3
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m)	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179. alat(	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298. deg)= 40.60	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282.	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498.	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558.	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558.	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490.	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274.	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285.	0.630 0.412 0.824 7.29 7.4 8.1 -0.2	0.699 0.533 0.751 5.21 4.8 1.3 -6.1
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEW YORK - month	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7 121. NEW YORK jan	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179. alat( feb	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298. deg)= 40.60	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282. yrs=1 apr	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498. 03. ele	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558.ev (m)= jun	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558. 40.2 tp05 jul	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490. (mm) = 61.0 aug	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274. tp6(m sep	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285. m)= 133.3 oct	0.630 0.412 0.824 7.29 7.4 8.1 -0.2 137.	0.699 0.533 0.751 5.21 4.8 1.3 -6.1 111.
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) NEW YORK - month prw2(m)	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7 121. NEW YORK jan 0.464	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179. alat( feb 0.446	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298. deg)= 40.60 mar 0.466	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282. yrs=1 apr 0.471	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498. 03. ele may 0.443	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558.ev (m)= jun 0.416	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558. 40.2 tp05 jul 0.381	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490. (mm) = 61.0 aug 0.358	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274. tp6(m sep 0.399	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285. m)= 133.3 oct 0.396	0.630 0.412 0.824 7.29 7.4 8.1 -0.2 137. nov 0.479	0.699 0.533 0.751 5.21 4.8 1.3 -6.1 111. dec 0.473
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEW YORK - month prw2(m) prw1(m)	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7 121. NEW YORK jan 0.464 0.302	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179. alat( feb 0.446 0.296	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298. deg)= 40.60 mar 0.466 0.325	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282. yrs=1 apr 0.471 0.354	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498. 03. ele may 0.443 0.314	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558.ev (m)= jun 0.416 0.271	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558. 40.2 tp05 jul 0.381 0.245	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490. (mm) = 61.0 aug 0.358 0.297	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274. tp6(m sep 0.399 0.217	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285. m)= 133.3 oct 0.396 0.191	0.630 0.412 0.824 7.29 7.4 8.1 -0.2 137. nov 0.479 0.283	0.699 0.533 0.751 5.21 4.8 1.3 -6.1 111. dec 0.473 0.299 0.658 12.22
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEW YORK - month prw2(m) prw1(m) alfg(m)	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7 121. NEW YORK jan 0.464 0.302 0.739 8.33 26.7	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179. alat( feb 0.446 0.296 0.671	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298. deg)= 40.60 mar 0.466 0.325 0.683	apr 0.595 0.409 0.783 6.86 19.8 11.6 282. yrs=1 apr 0.471 0.354 0.650	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498. 03. ele may 0.443 0.314 0.664 10.49 18.5	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558. ev (m)= jun 0.416 0.271 0.765 9.65 26.7	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558. 40.2 tp05 jul 0.381 0.245 0.627 15.95 30.2	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490. (mm) = 61.0 aug 0.358 0.297 0.583 19.51 31.2	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274. tp6(m sep 0.399 0.217 0.667 14.71 31.8	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285. m)= 133.3 oct 0.396 0.191 0.608 17.32 11.9	0.630 0.412 0.824 7.29 7.4 8.1 -0.2 137. nov 0.479 0.283 0.683 13.06 14.0	0.699 0.533 0.751 5.21 4.8 1.3 -6.1 111. dec 0.473 0.299 0.658 12.22 13.5
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) NEW YORK - month prw2(m) prw1(m) alfg(m) betg(m)	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7 121. NEW YORK jan 0.464 0.302 0.739 8.33 26.7 4.2	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179. alat( feb 0.446 0.296 0.671 12.50 10.9 4.6	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298. deg)= 40.60 mar 0.466 0.325 0.683 12.93 10.4 8.8	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282. yrs=1 apr 0.471 0.450 12.55 9.1 15.3	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498. 03. ele may 0.443 0.314 0.664 10.49 18.5 21.9	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558.ev (m)= jun 0.416 0.271 0.765 9.65 26.7 26.8	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558. 40.2 tp05 jul 0.381 0.245 0.627 15.95 30.2 29.6	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490. (mm) = 61.0 aug 0.358 0.297 0.583 19.51 31.2 28.5	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274. tp6(m sep 0.399 0.217 0.667 14.71 31.8 24.9	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285. m)= 133.3 oct 0.396 0.191 0.608 17.32 11.9 19.1	0.630 0.412 0.824 7.29 7.4 8.1 -0.2 137. nov 0.479 0.283 0.683 13.06 14.0 12.1	0.699 0.533 0.751 5.21 4.8 1.3 -6.1 111. dec 0.473 0.299 0.658 12.22 13.5 5.6
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) NEW YORK - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m)	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7 121. NEW YORK jan 0.464 0.302 0.739 8.33 26.7 4.2 -2.8	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179. alat( feb 0.446 0.296 0.671 12.50 10.9 4.6 -3.1	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298. deg)= 40.60 mar 0.466 0.325 0.683 12.93 10.4 8.8 0.7	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282. yrs=1 apr 0.471 0.354 0.650 12.55 9.1 15.3 6.2	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498. 03. ele may 0.443 0.314 0.664 10.49 18.5 21.9	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558. ev (m)= jun 0.416 0.271 0.765 9.65 26.7 26.8 16.9	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558. 40.2 tp05 jul 0.381 0.245 0.627 15.95 30.2 29.6 20.1	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490. (mm) = 61.0 aug 0.358 0.297 0.583 19.51 31.2 28.5 19.3	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274. tp6(m sep 0.399 0.217 0.667 14.71 31.8 24.9 15.6	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285. m)= 133.3 oct 0.396 0.191 0.608 17.32 11.9 19.1	0.630 0.412 0.824 7.29 7.4 8.1 -0.2 137. nov 0.479 0.283 0.683 13.06 14.0 12.1	0.699 0.533 0.751 5.21 4.8 1.3 -6.1 111. dec 0.473 0.299 0.658 12.22 13.5 5.6 -1.3
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) NEW YORK - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m)	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7 121. NEW YORK jan 0.464 0.302 0.739 8.33 26.7 4.2 -2.8 130.	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179. alat( feb 0.446 0.296 0.671 12.50 10.9 4.6 -3.1 199.	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298. deg)= 40.60 mar 0.466 0.325 0.683 12.93 10.4 8.8 0.7 290.	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282. yrs=1 apr 0.471 0.354 0.650 12.55 9.1 15.3 6.2 369.	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498. 03. ele may 0.443 0.314 0.664 10.49 18.5 21.9 11.9 432.	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558. v (m)= jun 0.416 0.271 0.765 9.65 26.7 26.8 16.9 470.	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558. 40.2 tp05 jul 0.381 0.245 0.627 15.95 30.2 29.6 20.1 459.	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490. (mm) = 61.0 aug 0.358 0.297 0.583 19.51 31.2 28.5 19.3 389.	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274. tp6(m sep 0.399 0.217 0.667 14.71 31.8 24.9 15.6 331.	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285. m)= 133.3 oct 0.396 0.191 0.608 17.32 11.9 19.1 10.2 242.	0.630 0.412 0.824 7.29 7.4 8.1 -0.2 137. nov 0.479 0.283 0.683 13.06 14.0 12.1 4.6 147.	0.699 0.533 0.751 5.21 4.8 1.3 -6.1 111. dec 0.473 0.299 0.658 12.22 13.5 5.6
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) NEW YORK - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m)	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7 121. NEW YORK jan 0.464 0.302 0.739 8.33 26.7 4.2 -2.8 130. SYRACRUSE	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179. alat( feb 0.446 0.296 0.671 12.50 10.9 4.6 -3.1 199. alat	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298. deg)= 40.60 mar 0.466 0.325 0.683 12.93 10.4 8.8 0.7 290. (deg)= 43.1	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282. yrs=1 apr 0.471 0.354 0.650 12.55 9.1 15.3 6.2 369.	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498. 03. ele may 0.443 0.314 0.664 10.49 18.5 21.9 11.9 432.	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558.ev (m)= jun 0.416 0.271 0.765 9.65 26.7 26.8 16.9 470. ev (m)=	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558. 40.2 tp05 jul 0.381 0.245 0.627 15.95 30.2 29.6 20.1 459.	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490. (mm) = 61.0 aug 0.358 0.297 0.583 19.51 31.2 28.5 19.3 389. 5(mm) = 61.4	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274. tp6(m sep 0.399 0.217 0.667 14.71 31.8 24.9 15.6 331. 0 tp6(	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285. m)= 133.3 oct 0.396 0.191 0.608 17.32 11.9 19.1 10.2 242. mm)= 96.5	0.630 0.412 0.824 7.29 7.4 8.1 -0.2 137. nov 0.479 0.283 0.683 13.06 14.0 12.1 4.6 147.	0.699 0.533 0.751 5.21 4.8 1.3 -6.1 111. dec 0.473 0.299 0.658 12.22 13.5 5.6 -1.3 115.
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) NEW YORK - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) NEW YORK - month	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7 121. NEW YORK jan 0.464 0.302 0.739 8.33 26.7 4.2 -2.8 130. SYRACRUSE jan	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179. alat( feb 0.446 0.296 0.671 12.50 10.9 4.6 -3.1 199. alat feb	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298. deg)= 40.60 mar 0.466 0.325 0.683 12.93 10.4 8.8 0.7 290. (deg)= 43.1 mar	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282. yrs=1 apr 0.471 0.354 0.650 12.55 9.1 15.3 6.2 369. yrs= apr	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498. 03. ele may 0.443 0.314 0.664 10.49 18.5 21.9 11.9 432. 22. el	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558.ev (m)= jun 0.416 0.271 0.765 9.65 26.7 26.8 16.9 470.ev (m)= jun	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558. 40.2 tp05 jul 0.381 0.245 0.627 15.95 30.2 29.6 20.1 459. 125.0 tp0	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490. (mm) = 61.0 aug 0.358 0.297 0.583 19.51 31.2 28.5 19.3 389. 5(mm) = 61.4 aug	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274. tp6(m sep 0.399 0.217 0.667 14.71 31.8 24.9 15.6 331.0 tp6(sep	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285. m)= 133.3 oct 0.396 0.191 0.608 17.32 11.9 19.1 10.2 242. mm)= 96.5	0.630 0.412 0.824 7.29 7.4 8.1 -0.2 137. nov 0.479 0.283 0.683 13.06 14.0 12.1 4.6 147.	0.699 0.533 0.751 5.21 4.8 1.3 -6.1 111. dec 0.473 0.299 0.658 12.22 13.5 5.6 -1.3 115.
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) NEW YORK - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) tamn(m) ra(m) NEW YORK - month	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7 121. NEW YORK jan 0.464 0.302 0.739 8.33 26.7 4.2 -2.8 130. SYRACRUSE jan 0.655	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179. alat( feb 0.446 0.296 0.671 12.50 10.9 4.6 -3.1 199. alat feb 0.657	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298. deg) = 40.60 mar 0.466 0.325 0.683 12.93 10.4 8.8 0.7 290. (deg) = 43.1 mar 0.631	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282. yrs=1 apr 0.471 0.354 0.650 12.55 9.1 15.3 6.2 369. 2 yrs= apr	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498. 03. ele may 0.443 0.314 0.664 10.49 18.5 21.9 11.9 432. 22. el	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558.ev (m)= jun 0.416 0.271 0.765 9.65 26.7 26.8 16.9 470.ev (m)= jun 0.413	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558. 40.2 tp05 jul 0.381 0.245 0.627 15.95 30.2 29.6 20.1 459. 125.0 tp0 jul 0.445	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490. (mm) = 61.0 aug 0.358 0.297 0.583 19.51 31.2 28.5 19.3 389. 5(mm) = 61.1 aug 0.399	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274. tp6(m sep 0.399 0.217 0.667 14.71 31.8 24.9 15.6 sep 0.467	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285. m)= 133.3 oct 0.396 0.191 0.608 17.32 11.9 19.1 10.2 242. mm)= 96.3 oct 0.532	0.630 0.412 0.824 7.29 7.4 8.1 -0.2 137. nov 0.479 0.283 0.683 13.06 14.0 12.1 4.6 147.	0.699 0.533 0.751 5.21 4.8 1.3 -6.1 111. dec 0.473 0.299 0.658 12.22 13.5 5.6 -1.3 115. dec 0.674
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) NEW YORK - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) NEW YORK - month prw2(m) prw1(m) alfg(m) prw1(m) alfg(m) prw1(m) prw1(m) prw1(m) na(m) NEW YORK - month prw2(m) prw1(m)	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7 121. NEW YORK jan 0.464 0.302 0.739 8.33 26.7 4.2 -2.8 130. SYRACRUSE jan 0.655 0.494	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179. alat( feb 0.446 0.296 0.671 12.50 10.9 4.6 -3.1 199. alat feb 0.657	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298. deg)= 40.60 mar 0.466 0.325 0.683 12.93 10.4 8.8 0.7 290. (deg)= 43.1 mar 0.631 0.415	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282. yrs=1 apr 0.471 0.354 0.650 12.55 9.1 15.3 6.2 369. 2 yrs= apr 0.583 0.388	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498. 03. ele may 0.443 0.314 0.664 10.49 18.5 21.9 11.9 432. 22. el may 0.510 0.350	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558.ev (m)= jun 0.416 0.271 0.765 9.65 26.7 26.8 16.9 470. ev (m)= jun 0.413 0.301	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558. 40.2 tp05 jul 0.381 0.245 0.627 15.95 30.2 29.6 20.1 459. 125.0 tp0 jul 0.445 0.284	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490. (mm) = 61.0 aug 0.358 0.297 0.583 19.51 31.2 28.5 19.3 389. 5(mm) = 61.0 aug 0.399 0.399 0.308	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274. tp6(m sep 0.399 0.217 0.667 14.71 31.8 24.9 15.6 331. 0 tp6(sep 0.467 0.262	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285. m)= 133.3 oct 0.396 0.191 0.608 17.32 11.9 19.1 10.2 242. mm)= 96.5 oct 0.532 0.532 0.266	0.630 0.412 0.824 7.29 7.4 8.1 -0.2 137. nov 0.479 0.283 0.683 13.06 14.0 12.1 4.6 147.	0.699 0.533 0.751 5.21 4.8 1.3 -6.1 111. dec 0.473 0.299 0.658 12.22 13.5 5.6 -1.3 115. dec 0.674
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) alfg(m) prw1(m) prw2(m) prw1(m) alfg(m)	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7 121. NEW YORK jan 0.464 0.302 0.739 8.33 26.7 4.2 -2.8 130. SYRACRUSE jan 0.655 0.494 0.893	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179. alat( feb 0.446 0.296 0.671 12.50 10.9 4.6 -3.1 199. alat feb 0.657 0.487	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298. deg)= 40.60 mar 0.466 0.325 0.683 12.93 10.4 8.8 0.7 290. (deg)= 43.1 mar 0.631 0.415 0.736	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282. yrs=1 apr 0.471 0.354 0.650 12.55 9.1 15.3 6.2 369. 2 yrs= apr 0.583 0.388 0.800	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498. 03. ele may 0.443 0.314 0.664 10.49 18.5 21.9 11.9 432. 22. el may 0.510 0.350 0.783	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558.ev (m)= jun 0.416 0.271 0.765 9.65 26.7 26.8 16.9 470. ev (m)= jun 0.413 0.301 0.735	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558. 40.2 tp05 jul 0.381 0.245 0.627 15.95 30.2 29.6 20.1 459. 125.0 tp0 jul 0.445 0.284 0.715	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490. (mm) = 61.0 aug 0.358 0.297 0.583 19.51 31.2 28.5 19.3 389. 5(mm) = 61.1 aug 0.399 0.308 0.722	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274. tp6(m sep 0.399 0.217 0.667 14.71 31.8 24.9 15.6 331. 0 tp6(sep 0.467 0.262 0.805	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285. m)= 133.3 oct 0.396 0.191 0.608 17.32 11.9 19.1 10.2 242. mm)= 96.5 oct 0.532 0.266 0.824	0.630 0.412 0.824 7.29 7.4 8.1 -0.2 137. nov 0.479 0.283 0.683 13.06 14.0 12.1 4.6 147. 5 nov 0.608 0.425 0.806	0.699 0.533 0.751 5.21 4.8 1.3 -6.1 111. dec 0.473 0.299 0.658 12.22 13.5 5.6 -1.3 115. dec 0.674 0.561
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) NEW YORK - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEW YORK - month prw2(m) prw1(m) alfg(m) betg(m) prw1(m) alfg(m) betg(m)	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7 121. NEW YORK jan 0.464 0.302 0.739 8.33 26.7 4.2 -2.8 130. SYRACRUSE jan 0.655 0.494 0.893 4.09	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179. alat( feb 0.446 0.296 0.671 12.50 10.9 4.6 -3.1 199. alat feb 0.467 10.77 10.79	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298. deg)= 40.60 mar 0.466 0.325 0.683 12.93 10.4 8.8 0.7 290. (deg)= 43.1 mar 0.631 0.415 0.736 6.20	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282. yrs=1 apr 0.471 0.354 0.650 12.55 9.1 15.3 6.2 369. 2 yrs= apr 0.583 0.388 0.800 6.78	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498. 03. ele may 0.443 0.314 0.664 10.49 18.5 21.9 11.9 432. 22. el may 0.510 0.350 0.783 7.11	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558. ev (m)= jun 0.416 0.271 0.765 9.65 26.7 26.8 16.9 470. ev (m)= jun 0.413 0.301 0.735 9.60	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558. 40.2 tp05 jul 0.381 0.245 0.627 15.95 30.2 29.6 20.1 459. 125.0 tp0 jul 0.445 0.284 0.715 10.59	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490. (mm) = 61.0 aug 0.358 0.297 0.583 19.51 31.2 28.5 19.3 389. 5(mm) = 61.1 aug 0.399 0.308 0.722 12.17	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274. tp6(m sep 0.399 0.217 0.667 14.71 31.8 24.9 15.6 331. 0 tp6(sep 0.467 0.262 0.805 8.25	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285. m)= 133.3 oct 0.396 0.191 0.608 17.32 11.9 19.1 10.2 242. mm)= 96.5 oct 0.532 0.266 0.824 8.23	0.630 0.412 0.824 7.29 7.4 8.1 -0.2 137. nov 0.479 0.283 0.683 13.06 14.0 12.1 4.6 147. 5 nov 0.425 0.806 6.50	0.699 0.533 0.751 5.21 4.8 1.3 -6.1 111. dec 0.473 0.299 0.658 12.22 13.5 5.6 -1.3 115. dec 0.674 0.561 0.840 4.72
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) tamn(m) prw2(m) prw1(m) alfg(m) betg(m) ri(m) ra(m) NEW YORK -	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7 121. NEW YORK jan 0.464 0.302 0.739 8.33 26.7 4.2 -2.8 130. SYRACRUSE jan 0.655 0.494 0.893 4.09 7.4	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179. alat( feb 0.446 0.296 0.671 12.50 10.9 4.6 -3.1 199. alat feb 0.487 0.487 0.487 0.778 5.64	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298. deg)= 40.60 mar 0.466 0.325 0.683 12.93 10.4 8.8 0.7 290. (deg)= 43.1 mar 0.631 0.415 0.736 6.20 7.6	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282. yrs=1 apr 0.471 0.354 0.650 12.55 9.1 15.3 6.2 369. 2 yrs= apr 0.583 0.388 0.800 6.78 13.2	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498. 03. ele may 0.443 0.314 0.664 10.49 18.5 21.9 11.9 432. 22. el may 0.510 0.350 0.783 7.11 24.9	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558. ev (m)= jun 0.416 0.271 0.765 9.65 26.7 26.8 16.9 470. ev (m)= jun 0.413 0.301 0.735 9.60 32.5	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558. 40.2 tp05 jul 0.381 0.245 0.627 15.95 30.2 29.6 20.1 459. 125.0 tp0 jul 0.445 0.284 0.715 10.59 29.0	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490. (mm) = 61.0 aug 0.358 0.297 0.583 19.51 31.2 28.5 19.3 389. 5(mm) = 61.0 aug 0.399 0.399 0.398 0.722 12.17 29.7	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274. tp6(m sep 0.399 0.217 0.667 14.71 31.8 24.9 15.6 331. 0 tp6(sep 0.467 0.262 0.805	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285. m)= 133.3 oct 0.396 0.191 0.608 17.32 11.9 19.1 10.2 242. mm)= 96.5 oct 0.532 0.266 0.824	0.630 0.412 0.824 7.29 7.4 8.1 -0.2 137. nov 0.479 0.283 0.683 13.06 14.0 12.1 4.6 147. 5 nov 0.608 0.425 0.806	0.699 0.533 0.751 5.21 4.8 1.3 -6.1 111. dec 0.473 0.299 0.658 12.22 13.5 5.6 -1.3 115. dec 0.674 0.561
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) NEW YORK - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NEW YORK - month prw2(m) prw1(m) alfg(m) betg(m) prw1(m) alfg(m) betg(m)	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7 121. NEW YORK jan 0.464 0.302 0.739 8.33 26.7 4.2 -2.8 130. SYRACRUSE jan 0.655 0.494 0.893 4.09	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179. alat( feb 0.446 0.296 0.671 12.50 10.9 4.6 -3.1 199. alat feb 0.487 0.487 0.778 5.64 4.6 -0.1	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298. deg)= 40.60 mar 0.466 0.325 0.683 12.93 10.4 8.8 0.7 290. (deg)= 43.1 mar 0.631 0.415 0.736 6.20	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282. yrs=1 apr 0.471 0.354 0.650 12.55 9.1 15.3 6.2 369. 2 yrs= apr 0.583 0.388 0.800 6.78	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498. 03. ele may 0.443 0.314 0.664 10.49 18.5 21.9 11.9 432. 22. el may 0.510 0.350 0.783 7.11	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558. ev (m)= jun 0.416 0.271 0.765 9.65 26.7 26.8 16.9 470. ev (m)= jun 0.413 0.301 0.735 9.60	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558. 40.2 tp05 jul 0.381 0.245 0.627 15.95 30.2 29.6 20.1 459. 125.0 tp0 jul 0.445 0.284 0.715 10.59	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490. (mm) = 61.0 aug 0.358 0.297 0.583 19.51 31.2 28.5 19.3 389. 5(mm) = 61.1 aug 0.399 0.308 0.722 12.17	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274. tp6(m sep 0.399 0.217 0.667 14.71 31.8 24.9 15.6 331. 0 tp6(sep 0.467 0.262 0.805 8.25 20.3	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285. m)= 133.3 oct 0.396 0.191 0.608 17.32 11.9 19.1 10.2 242. mm)= 96.3 oct 0.532 0.266 0.824 8.23 12.7	0.630 0.412 0.824 7.29 7.4 8.1 -0.2 137. nov 0.479 0.283 13.06 14.0 12.1 4.6 147. 5 nov 0.608 0.425 0.806 6.50 6.9	0.699 0.533 0.751 5.21 4.8 1.3 -6.1 111. dec 0.473 0.299 0.658 12.22 13.5 5.6 -1.3 115. dec 0.674 0.561 0.840 4.72 4.8
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) NEW YORK - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) prw1(m) prw1(m) prw1(m) prw1(m) prw1(m) alfg(m) betg(m) prw1(m) alfg(m) betg(m)	jan 0.704 0.578 0.779 4.78 4.8 -0.7 -7.7 121. NEW YORK jan 0.464 0.302 0.739 8.33 26.7 4.2 -2.8 130. SYRACRUSE jan 0.655 0.494 0.893 4.09 7.4 -0.3	feb 0.658 0.485 0.728 5.16 6.1 -0.6 -8.2 179. alat( feb 0.446 0.296 0.671 12.50 10.9 4.6 -3.1 199. alat feb 0.487 0.487 0.487 0.778 5.64	mar 0.613 0.421 0.752 5.99 9.7 3.7 -4.2 298. deg)= 40.60 mar 0.466 0.325 0.683 12.93 10.4 8.8 0.7 290. (deg)= 43.1 mar 0.631 0.415 0.736 6.20 7.6 4.6	apr 0.595 0.409 0.783 6.86 19.8 11.6 1.1 282. yrs=1 apr 0.471 0.354 0.650 12.55 9.1 15.3 6.2 369. 2 yrs= apr 0.583 0.388 0.800 6.78 13.2 12.8	may 0.483 0.339 0.757 8.03 17.8 18.6 6.7 498. 03. ele may 0.443 0.314 0.664 10.49 18.5 21.9 11.9 432. 22. el may 0.510 0.350 0.783 7.11 24.9 19.9	jun 0.397 0.276 0.785 7.80 17.5 23.9 12.5 558. v (m)= jun 0.416 0.271 0.765 9.65 26.7 26.8 16.9 470. ev (m)= jun 0.413 0.301 0.735 9.60 32.5 25.4	jul 0.363 0.283 0.719 10.64 24.1 26.7 15.2 558. 40.2 tp05 jul 0.381 0.245 0.627 15.95 30.2 29.6 20.1 459. 125.0 tp0 jul 0.445 0.284 0.715 10.59 29.0 28.0	aug 0.446 0.300 0.754 11.71 35.6 25.9 14.5 490. (mm) = 61.0 aug 0.358 0.297 0.583 19.51 31.2 28.5 19.3 389. 5(mm) = 61.4 aug 0.399 0.308 0.722 12.17 29.7 26.9	sep 0.480 0.270 0.728 10.34 26.7 21.9 10.7 274. tp6(m sep 0.399 0.217 0.667 14.71 31.8 24.9 15.6 331. 0 tp6(sep 0.467 0.262 0.805 8.25 20.3 22.4	oct 0.555 0.239 0.711 9.50 12.4 15.6 5.2 285. m)= 133.3 oct 0.396 0.191 0.608 17.32 11.9 19.1 10.2 242. mm)= 96.5 oct 0.532 0.266 0.824 8.23 12.7 16.2	0.630 0.412 0.824 7.29 7.4 8.1 -0.2 137. nov 0.479 0.283 0.683 13.06 14.0 12.1 4.6 147. 5 nov 0.608 0.425 0.806 6.50 6.9 8.4	0.699 0.533 0.751 5.21 4.8 1.3 -6.1 111. dec 0.473 0.299 0.658 12.22 13.5 5.6 -1.3 115. dec 0.674 0.561 0.840 4.72 4.8 1.4

					_							
NORTH CAROL				)= 35.43	yrs= 5	_	(m)= 652.3		mm) = 64.8	tp6(mm)		
month	jan	feb	mar 0.510	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.448 0.265	0.507 0.302	0.519 0.344	0.520 0.296	0.535 0.265	0.498 0.296	0.551 0.358	0.542	0.532 0.184	0.582 0.158	0.450 0.221	0.492 0.239
prw1(m) alfg(m)	0.690	0.786	0.700	0.670	0.772	0.270	0.338	0.676	0.628	0.138	0.670	0.645
betg(m)	9.60	9.70	11.30	11.48	8.10	10.11	7.16	12.47	16.00	12.32	10.80	11.05
ri(m)	10.2	8.9	16.5	37.3	36.3	29.2	38.4	33.8	50.8	15.5	23.6	10.9
tamx(m)	8.6	9.7	13.4	19.5	24.2	27.8	28.6	28.1	25.3	20.2	13.5	9.1
tamn(m)	-2.4	-2.3	0.6	5.6	10.2	14.5	16.3	15.8	12.3	6.2	0.4	-2.6
ra(m)	208.	284.	362.	477.	539.	572.	552.	497.	414.	330.	251.	205.
NORTH CAROL		ENSBORO		g)= 36.08			(m) = 273.		(mm)= 69.8		)= 137.2	2031
month	jan	feb	mar	арг	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.435	0.500	0.516	0.442	0.502	0.495	0.519	0.539	0.476	0.479	0.436	0.434
prw1(m)	0.255	0.281	0.264	0.279	0.232	0.266	0.301	0.244	0.167	0.158	0.199	0.202
alfg(m)	0.739	0.819	0.803	0.725	0.721	0.646	0.694	0.643	0.535	0.562	0.697	0.713
betg(m)	11.66	11.10	10.82	11.81	9.88	15.95	12.70	16.43	19.51	19.53	11.43	14.76
ri(m)	15.2	9.1	13.7	11.7	20.6	25.1	54.6	31.8	41.9	15.2	14.0	10.7
tamx(m)	9.8	11.0	14.9	20.7	26.0	30.1	30.9	30.2	27.2	21.9	15.4	10.1
tamn(m)	-1.2	-1.0	2.1	7.4	12.7	17.4	19.4	18.8	15.2	8.3	2.2	-1.3
ra(m)	200.	276.	354.	469.	531.	564.	544.	485.	406.	322.	243.	197.
NORTH CAROL			alat(deg)=	-	rs= 25.					:p6(mm)=		
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.416	0.508	0.465	0.433	0.442	0.459	0.521	0.480	0.431	0.400	0.418	0.425
prw1(m)	0.251	0.258	0.261	0.247	0.247	0.236	0.264	0.243	0.147	0.150	0.201	0.204
alfg(m)	0.722	0.808	0.873	0.844	0.797	0.732	0.770	0.620	0.729	0.722	0.755	0.850
betg(m)	12.32	11.53	9.91	10.29	10.87	13.74	14.50	20.65	16.33	15.04	12.01	11.02
ri(m)	12.4	14.0	18.5	12.7	22.1	57.1	24.4	24.4	23.9	23.9	22.9	30.0
tamx(m)	11.1 -0.4	12.2 -0.1	16.2 3.2	22.1 8.2	26.3 13.2	30.2 17.7	31.2 19.8	30.6 19.3	27.8 15.8	22.7 9.0	16.8 3.2	11.3 -0.3
tamn(m)									379.			
ra(m)	235	302	360	400			242					
ra(m) NORTH DAKOT	235. A - BISMA	302. RCK a	360. lat(deg)=	466. 46.77 yr	494. s= 18.	564. elev (m):	535. = 502.9 t	476. co05(mm)		307. o6(mm)=	235. 95.3	199.
ra(m) NORTH DAKOT month			360. lat(deg)= mar			elev (m): jun			= 54.6 tp sep			dec
NORTH DAKOT	A - BISMA	RCK a	lat(deg)=	46.77 уг	s= 18.	elev (m)	= 502.9 t	p05 (mm)	= 54.6 tp	o6(mm)=	95.3	
NORTH DAKOT month	A - BISMA jan	RCK a feb 0.393 0.188	lat(deg)= mar	46.77 yr apr	s <b>= 18.</b> may	elev (m): jun	= 502.9 t jul	p05(mm) aug	= 54.6 tp sep	o6(mm)= oct	95.3 nov	dec
NORTH DAKOT month prw2(m)	A - BISMA jan 0.354	RCK a feb 0.393 0.188 0.935	lat(deg)= mar 0.372 0.205 0.803	46.77 yr apr 0.477 0.187 0.704	s= 18. may 0.480 0.261 0.698	elev (m) jun 0.519 0.328 0.673	= 502.9 t jul 0.412 0.249 0.690	p05(mm) aug 0.330	= 54.6 tp sep 0.344 0.200 0.755	o6(mm)= oct 0.363	95.3 nov 0.445	dec 0.437
NORTH DAKOT month prw2(m) prw1(m)	A - BISMA jan 0.354 0.227	RCK a feb 0.393 0.188	lat(deg)= mar 0.372 0.205 0.803 2.54	46.77 yr apr 0.477 0.187	s= 18. may 0.480 0.261	elev (m) jun 0.519 0.328 0.673 10.72	= 502.9 t jul 0.412 0.249 0.690 8.53	p05(mm) aug 0.330 0.277	= 54.6 tp sep 0.344 0.200 0.755 5.74	o6(mm)= oct 0.363 0.112	95.3 nov 0.445 0.139	dec 0.437 0.197 1.076 1.45
NORTH DAKOT month prw2(m) prw1(m) alfg(m)	7A - BISMA jan 0.354 0.227 1.184 1.42 1.8	RCK a feb 0.393 0.188 0.935 1.88	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3	46.77 yr apr 0.477 0.187 0.704 6.35 7.1	s= 18. may 0.480 0.261 0.698 8.33 18.0	elev (m) jun 0.519 0.328 0.673 10.72 13.5	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1	oct 0.363 0.112 0.822	95.3 nov 0.445 0.139 0.828 2.74 1.5	dec 0.437 0.197 1.076
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	7A - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6	RCK a feb 0.393 0.188 0.935 1.88 1.8	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2	o6(mm)= oct 0.363 0.112 0.822 4.01 3.3 14.7	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5	dec 0.437 0.197 1.076 1.45 2.8 -3.6
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	A - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6	RCK a feb 0.393 0.188 0.935 1.88 1.8 -4.8	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6 5.7	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2	ob(mm) = oct 0.363 0.112 0.822 4.01 3.3 14.7 0.5	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5	dec 0.437 0.197 1.076 1.45 2.8 -3.6
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m)	A - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157.	RCK a feb 0.393 0.188 0.935 1.88 -4.8 -16.6 250.	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356.	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447.	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550.	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590.	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617.	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516.	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2 390.	oct 0.363 0.112 0.822 4.01 3.3 14.7 0.5 272.	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161.	dec 0.437 0.197 1.076 1.45 2.8 -3.6
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NORTH DAKOT	A - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157.	feb 0.393 0.188 0.935 1.88 1.8 -4.8 -16.6 250.	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)=	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447.	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41.	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617.	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2 390.	oct 0.363 0.112 0.822 4.01 3.3 14.7 0.5 272.	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161.	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124.
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NORTH DAKOT	A - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157. YA - WILLI	feb 0.393 0.188 0.935 1.88 1.8 -4.8 -16.6 250.	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)= mar	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447. 48.18 y	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41. may	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617. )= 572.1 jul	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2 390. )= 46.2 tsep	ob(mm) =	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161. 86.4 nov	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124.
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) na(m) NORTH DAKOT prw2(m)	A - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157. TA - WILLI jan 0.409	rek a feb 0.393 0.188 0.935 1.88 1.8 -4.8 -16.6 250.	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)= mar 0.349	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447. 48.18 y apr 0.397	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41. may 0.469	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m jun 0.480	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617. )= 572.1 jul 0.396	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm aug 0.297	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2 390. )= 46.2 tsep 0.383	oct 0.363 0.112 0.822 4.01 3.3 14.7 0.5 272. p6(mm) = oct 0.364	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161. 86.4 nov 0.393	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124. dec 0.469
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) NORTH DAKOT month prw2(m) prw1(m)	A - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157. TA - WILLI jan 0.409 0.227	rck a feb 0.393 0.188 0.935 1.88 1.8 -4.8 -550.	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)= mar 0.349 0.206	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447. 48.18 y apr 0.397 0.187	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41. may 0.469 0.189	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m jun 0.480 0.322	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617. )= 572.1 jul 0.396 0.240	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm aug 0.297 0.205	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2 390. )= 46.2 ts sep 0.383 0.176	oct 0.363 0.112 0.822 4.01 3.3 14.7 0.5 272. :p6(mm)= oct 0.364 0.119	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161. 86.4 nov 0.393 0.155	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124. dec 0.469 0.169
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NORTH DAKOT month prw2(m) prw1(m) alfg(m)	A - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157. (A - WILLI jan 0.409 0.227 1.006	RCK a feb 0.393 0.188 0.935 1.88 1.8 -4.8 -16.6 250. STON feb 0.374 0.204 1.009	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)= mar 0.349 0.206 1.117	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447. 48.18 y apr 0.397 0.187 0.731	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41. may 0.469 0.189 0.728	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m jun 0.480 0.322 0.689	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617. )= 572.1 jul 0.396 0.240 0.644	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm aug 0.297 0.205 0.644	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2 390. )= 46.2 t sep 0.383 0.176 0.664	oct 0.363 0.112 0.822 4.01 3.3 14.7 0.5 272. ::p6(mm)= oct 0.364 0.119 0.733	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161. 86.4 nov 0.393 0.155 1.038	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124. dec 0.469 0.169 1.115
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m)	A - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157. VA - WILLI jan 0.409 0.227 1.006 1.78	RCK feb 0.393 0.188 0.935 1.88 -4.8 -16.6 250. STON feb 0.374 0.204 1.009 1.96	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)= mar 0.349 0.206 1.117 1.47	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447. 48.18 y apr 0.397 0.187 0.731 6.38	s= 18.  may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41.  may 0.469 0.189 0.728 7.29	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m jun 0.480 0.322 0.689 9.14	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617. )= 572.1 jul 0.396 0.240 0.644 8.76	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm aug 0.297 0.205 0.644 8.28	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2 390. )= 46.2 ts sep 0.383 0.176 0.664 6.96	oct 0.363 0.112 0.822 4.01 3.3 14.7 0.5 272. p6(mm) = oct 0.364 0.119 0.733 4.55	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161. 86.4 nov 0.393 0.155 1.038 1.98	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124. dec 0.469 0.169 1.115 1.52
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	TA - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157. TA - WILLI jan 0.409 0.227 1.006 1.78 24.1	RCK feb 0.393 0.188 0.935 1.88 -1.8 -16.6 250. STON feb 0.374 0.204 1.009 1.96 16.5	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)= mar 0.349 0.206 1.117 1.47 26.9	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447. 48.18 y apr 0.397 0.187 0.731 6.38 31.8	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41. may 0.469 0.189 0.728 7.29 21.8	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m jun 0.480 0.322 0.689 9.14 45.7	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617. )= 572.1 jul 0.396 0.240 0.644 8.76 72.4	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm aug 0.297 0.205 0.205	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2 390. )= 46.2 ts sep 0.383 0.176 0.664 6.96 39.9	oct 0.363 0.112 0.822 4.01 3.3 14.7 0.5 272. p6(mm) = oct 0.364 0.119 0.733 4.55 16.8	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161. 86.4 nov 0.393 0.155 1.038 1.98 22.4	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124. dec 0.469 0.169 1.115 1.52 16.3
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	A - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157. TA - WILLI jan 0.409 0.227 1.006 1.78 24.1	RCK a feb 0.393 0.188 0.935 1.88 1.8 -4.8 -16.6 250. STON feb 0.374 0.204 1.009 1.96 16.5 -4.8	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)= mar 0.349 0.206 1.117 1.47 26.9 2.2	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447. 48.18 y apr 0.397 0.187 0.731 6.38 31.8 12.2	s= 18.  may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41.  may 0.469 0.189 0.728 7.29 21.8 19.0	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m jun 0.480 0.322 0.689 9.14 45.7 23.3	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617. )= 572.1 jul 0.396 0.240 0.644 8.76 72.4 28.6	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm aug 0.297 0.205 0.644 8.28 38.4 27.3	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2 390. )= 46.2 ts sep 0.383 0.176 0.664 6.96 39.9 20.9	oct 0.363 0.112 0.822 4.01 3.3 14.7 0.5 272. :p6(mm) = oct 0.364 0.119 0.733 4.55 16.8	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161. 86.4 nov 0.393 0.155 1.038 1.98 22.4 2.9	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124. dec 0.469 0.169 1.115 1.52 16.3 -4.0
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	A - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157. A - WILLI jan 0.409 0.227 1.006 1.78 24.1 -6.8 -17.7	rek a feb 0.393 0.188 0.935 1.88 1.8 -4.8 -16.6 250. STON feb 0.374 0.204 1.009 1.96 16.5 -4.8 -15.7	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)= mar 0.349 0.206 1.117 1.47 26.9 2.2 -8.3	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447. 48.18 y apr 0.397 0.187 0.731 6.38 31.8 12.2 -0.1	s= 18.  may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41.  may 0.469 0.189 0.728 7.29 21.8 19.0 6.1	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m jun 0.480 0.322 0.689 9.14 45.7 23.3 11.2	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617. )= 572.1 jul 0.396 0.240 0.644 8.76 72.4 28.6 14.6	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm aug 0.297 0.205 0.644 8.28 38.4 27.3 12.7	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2 390. )= 46.2 ts sep 0.383 0.176 0.664 6.96 39.9 20.9 7.0	oct 0.363 0.112 0.822 4.01 3.3 14.7 0.5 272. cp6(mm)= oct 0.364 0.119 0.733 4.55 16.8 13.9	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161. 86.4 nov 0.393 0.155 1.038 1.98 22.4 2.9 -7.1	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124. dec 0.469 0.169 1.115 1.52 16.3 -4.0 -14.1
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m)	A - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157. A - WILLI jan 0.409 0.227 1.006 1.78 24.1 -6.8 -17.7	rek a feb 0.393 0.188 0.935 1.88 1.8 -4.8 -16.6 250. STON feb 0.374 0.204 1.009 1.96 16.5 -4.8 -15.7 254.	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)= mar 0.349 0.206 1.117 1.47 26.9 2.2 -8.3 372.	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447. 48.18 y apr 0.397 0.187 0.731 6.38 31.8 12.2 -0.1 451.	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41. may 0.469 0.189 0.728 7.29 21.8 19.0 6.1 559.	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m jun 0.480 0.322 0.689 9.14 45.7 23.3 11.2 598.	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617. )= 572.1 jul 0.396 0.240 0.644 8.76 72.4 28.6 14.6 623.	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm aug 0.297 0.205 0.644 8.28 38.4 27.3 12.7 524.	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2 390. )= 46.2 ts sep 0.383 0.176 0.664 6.96 39.9 20.9 7.0 398.	oct 0.363 0.112 0.822 4.01 3.3 14.7 0.5 272. cp6(mm)= oct 0.364 0.119 0.733 4.55 16.8 13.9 1.1	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161. 86.4 nov 0.393 0.155 1.038 1.98 22.4 2.9	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124. dec 0.469 0.169 1.115 1.52 16.3 -4.0
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamn(m) ra(m) OHIO - CLEV	A - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157. A - WILLI jan 0.409 0.227 1.006 1.78 24.1 -6.8 -17.7 156.	RCK a feb 0.393 0.188 0.935 1.88 1.8 -4.8 -16.6 250. STON feb 0.374 0.204 1.009 1.96 16.5 -4.8 -15.7 254. alat(deg	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)= mar 0.349 0.206 1.117 1.47 26.9 2.2 -8.3 372. )= 41.42	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447. 48.18 y apr 0.397 0.187 0.731 6.38 31.8 12.2 -0.1 451. yrs= 16.	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41. may 0.469 0.189 0.728 7.29 21.8 19.0 6.1 559. elev	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m jun 0.480 0.322 0.689 9.14 45.7 23.3 11.2 598. (m)= 239.9	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617. )= 572.1 jul 0.396 0.240 0.644 8.76 72.4 28.6 14.6 623. tp05(mm)	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm aug 0.297 0.205 0.644 8.28 38.4 27.3 12.7 524.	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2 390. )= 46.2 tsep 0.383 0.176 0.664 6.96 39.9 20.9 7.0 398. tp6(mm)=	oct 0.363 0.112 0.822 4.01 3.3 14.7 0.5 272. p6(mm)= oct 0.364 0.119 0.733 4.55 16.8 13.9 1.1 269.	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161. 86.4 nov 0.393 0.155 1.038 1.98 22.4 2.9 -7.1 159.	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124. dec 0.469 0.169 1.115 1.52 16.3 -4.0 -14.1 120.
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) ra(m) NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) ca(m) OHIO - CLEV month	A - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157. YA - WILLI jan 0.409 0.227 1.006 1.78 24.1 -6.8 -17.7 156. /ELAND	RCK a feb 0.393 0.188 0.935 1.88 1.8 -4.8 -16.6 250. STON feb 0.374 0.204 1.009 1.96 16.5 -4.8 -15.7 254. alat(deg feb	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)= mar 0.349 0.206 1.117 1.47 26.9 2.2 -8.3 372. )= 41.42 mar	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447. 48.18 y apr 0.397 0.187 0.731 6.38 31.8 12.2 -0.1 451. yrs= 16. apr	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41. may 0.469 0.189 0.728 7.29 21.8 19.0 6.1 559. elev may	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m jun 0.480 0.322 0.689 9.14 45.7 23.3 11.2 598. (m)= 239.9	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617. )= 572.1 jul 0.396 0.240 0.644 8.76 72.4 28.6 14.6 623. tp05(mm) jul	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm aug 0.297 0.205 0.644 8.28 38.4 27.3 12.7 524. = 49.5 aug	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2 390. )= 46.2 ts sep 0.383 0.176 0.664 6.96 39.9 20.9 7.0 398. tp6(mm)= sep	oct 0.363 0.112 0.822 4.01 3.3 14.7 0.5 272. p6(mm) = oct 0.364 0.119 0.733 4.55 16.8 13.9 1.1 269.91.4 oct	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161. 86.4 nov 0.393 0.155 1.038 1.98 22.4 2.9 -7.1 159.	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124. dec 0.469 0.169 1.115 1.52 16.3 -4.0 -14.1 120.
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) OHIO - CLEV month prw2(m)	TA - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157. TA - WILLI jan 0.409 0.227 1.006 1.78 24.1 -6.8 -17.7 156. /ELAND jan	RCK a feb 0.393 0.188 0.935 1.88 -4.8 -16.6 250. STON feb 0.374 0.204 1.009 1.96 16.5 -4.8 -15.7 254. alat(deg feb 0.606	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)= mar 0.349 0.206 1.117 1.47 26.9 2.2 -8.3 372. )= 41.42 mar 0.583	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447. 48.18 y apr 0.397 0.187 0.731 6.38 31.8 12.2 -0.1 yrs= 16. apr 0.584	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41. may 0.469 0.728 7.29 21.8 19.0 6.1 559. elev may 0.506	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m jun 0.480 0.322 0.689 9.14 45.7 23.3 11.2 598. (m)= 239.9 jun 0.438	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617. )= 572.1 jul 0.396 0.240 0.644 8.76 72.4 28.6 14.6 623. tp05(mm) jul 0.395	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm aug 0.297 0.205 0.644 8.28 38.4 27.3 12.7 = 49.5 aug	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2 390. )= 46.2 ts sep 0.383 0.176 0.664 6.96 39.9 20.9 7.0 398. tp6(mm)= sep 0.429	oct 0.363 0.112 0.822 4.01 3.3 14.7 0.5 272. p6(mm) = oct 0.364 0.119 0.733 4.55 16.8 13.9 1.1 269. 91.4 oct 0.505	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161. 86.4 nov 0.393 0.155 1.038 1.98 22.4 2.9 -7.1 159. nov 0.613	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124. dec 0.469 0.169 1.115 1.52 16.3 -4.0 -14.1 120. dec
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) ra(m) NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) ca(m) OHIO - CLEV month	TA - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157. TA - WILLI jan 0.409 0.227 1.006 1.78 24.1 -6.8 -17.7 156. /ELAND jan 0.598 0.470	RCK a feb 0.393 0.188 0.935 1.88 1.8 -4.8 -16.6 250. STON feb 0.374 0.204 1.009 1.96 16.5 -4.8 -15.7 254. alat(deg feb	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)= mar 0.349 0.206 1.117 1.47 26.9 2.2 -8.3 372. )= 41.42 mar	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447. 48.18 y apr 0.397 0.187 0.731 6.38 31.8 12.2 -0.1 451. yrs= 16. apr	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41. may 0.469 0.189 0.728 7.29 21.8 19.0 6.1 559. elev may	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m jun 0.480 0.322 0.689 9.14 45.7 23.3 11.2 598. (m)= 239.9	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617. )= 572.1 jul 0.396 0.240 0.644 8.76 72.4 28.6 14.6 623. tp05(mm) jul	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm aug 0.297 0.205 0.644 8.28 38.4 27.3 12.7 524. = 49.5 aug	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2 390. )= 46.2 t sep 0.383 0.176 0.664 6.96 39.9 20.9 7.0 398. tp6(mm)= sep 0.429 0.252	oct 0.363 0.112 0.822 4.01 3.3 14.7 0.5 272. p6(mm) = oct 0.364 0.119 0.733 4.55 16.8 13.9 1.1 269. 91.4 oct 0.505 0.244	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161. 86.4 nov 0.393 0.155 1.038 1.98 22.4 2.9 -7.1 159.	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124. dec 0.469 0.169 1.115 1.52 16.3 -4.0 -14.1 120. dec 0.626 0.419
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) OHIO - CLEV month prw2(m) prw1(m)	TA - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157. TA - WILLI jan 0.409 0.227 1.006 1.78 24.1 -6.8 -17.7 156. /ELAND jan	RCK a feb 0.393 0.188 0.935 1.88 -4.8 -16.6 250. STON feb 0.374 0.204 1.009 1.96 16.5 -4.8 -15.7 254. alat(deg feb 0.606 0.452	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)= mar 0.349 0.206 1.117 1.47 26.9 2.2 -8.3 372.)= 41.42 mar 0.583 0.432	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447. 48.18 y apr 0.397 0.187 0.731 6.38 31.8 12.2 -0.1 yrs= 16. apr 0.584 0.404	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41. may 0.469 0.728 7.29 21.8 19.0 6.1 559. elev may 0.506 0.319	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m jun 0.480 0.322 0.689 9.14 45.7 23.3 11.2 598. (m) = 239.9 jun 0.438 0.290	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617. )= 572.1 jul 0.396 0.240 0.644 8.76 72.4 28.6 14.6 623. tp05(mm) jul 0.395 0.292	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm aug 0.297 0.205 0.644 8.28 38.4 27.3 12.7 54.2 49.5 aug 0.384 0.267	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2 390. )= 46.2 ts sep 0.383 0.176 0.664 6.96 39.9 20.9 7.0 398. tp6(mm)= sep 0.429	oct 0.363 0.112 0.822 4.01 3.3 14.7 0.5 272. p6(mm) = oct 0.364 0.119 0.733 4.55 16.8 13.9 1.1 269. 91.4 oct 0.505	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161. 86.4 nov 0.393 0.155 1.038 1.98 22.4 2.9 -7.1 159. nov 0.613 0.352	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124. dec 0.469 0.169 1.115 1.52 16.3 -4.0 -14.1 120. dec 0.626 0.419 0.762
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) prw1(m) prw2(m) prw1(m) alfg(m)	TA - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157. TA - WILLI jan 0.409 0.227 1.006 1.78 24.1 -6.8 -17.7 156. /ELAND jan 0.598 0.470 0.702 5.56	RCK a feb 0.393 0.188 0.935 1.88 1.8 -4.8 -16.6 250. STON feb 0.374 0.204 1.009 1.96 16.5 -4.8 -15.7 254. alat(deg feb 0.606 0.452 0.781 4.55	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)= mar 0.349 0.206 1.117 1.47 26.9 2.2 -8.3 372. )= 41.42 mar 0.583 0.432 0.780	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447. 48.18 y apr 0.397 0.187 0.731 6.38 31.8 12.2 -0.1 451. yrs= 16. apr 0.584 0.404 0.811	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41. may 0.469 0.189 0.728 7.29 21.8 19.0 6.1 559. el ev may 0.506 0.319 0.794	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m jun 0.480 0.322 0.689 9.14 45.7 23.3 11.2 598. (m) = 239.9 jun 0.438 0.290 0.769	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617. )= 572.1 jul 0.396 0.240 0.644 8.76 72.4 28.6 14.6 623. tp05(mm) jul 0.395 0.292 0.639 13.21	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm aug 0.297 0.205 0.644 8.28 38.4 27.3 12.7 524. = 49.5 aug 0.384 0.267 0.691	= 54.6 tp sep 0.344 0.200 0.755 5.74 22.2 7.2 390. )= 46.2 ts sep 0.383 0.176 0.664 6.96 39.9 20.9 7.0 398. tp6(mm)= sep 0.429 0.252 0.823	oct (mm) = oct (mm) = oct (mm) = oct (mm) = 0.363 (mm) = oct (mm) = oct (mm) = oct (mm) = oct (mm) = 0.733 (mm) = 0.734 (mm) = 0.734 (mm) = 0.735 (mm) = 0.735 (mm) = 0.734 (mm) = 0.734 (mm) = 0.505 (m	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161. 86.4 nov 0.393 0.155 1.038 1.98 22.4 2.9 -7.1 159. nov 0.613 0.352 0.748	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124. dec 0.469 0.169 1.115 1.52 16.3 -4.0 -14.1 120. dec 0.426 0.419 0.762 5.00
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) prw10 CEEV month prw2(m) prw10 defg(m) prw10 defg(m) prw10 defg(m) prw10 defg(m) prw10 defg(m)	TA - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157. TA - WILLI jan 0.409 0.227 1.006 1.78 24.1 -6.8 -17.7 156./ELAND jan 0.598 0.470 0.702	RCK a feb 0.393 0.188 0.935 1.88 1.8 -4.8 -16.6 250. STON feb 0.374 0.204 1.009 1.96 16.5 -4.8 -15.7 254. alat(deg feb 0.606 0.452 0.781	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)= mar 0.349 0.206 1.117 1.47 26.9 2.2 -8.3 372. )= 41.42 mar 0.583 0.432 0.780 5.97	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447. 48.18 y apr 0.397 0.187 0.731 6.38 31.8 12.2 -0.1 451. yrs= 16. apr 0.584 0.604 0.811 7.67	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41. may 0.469 0.189 0.728 7.29 21.8 19.0 6.1 559. elev may 0.506 0.319 0.794 8.41	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m jun 0.480 0.322 0.689 9.14 45.7 23.3 11.2 598. (m)= 239.9 jun 0.438 0.290 0.769 9.63	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617. )= 572.1 jul 0.396 0.240 0.644 8.76 72.4 28.6 14.6 623. tp05(mm) jul 0.395 0.292 0.639	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm aug 0.297 0.205 0.644 8.28 38.4 27.3 12.7 524. = 49.5 0.384 0.267 0.691 11.56	= 54.6 tp sep 0.344 0.200 0.755 5.74 22.1 7.2 390. )= 46.2 ts sep 0.383 0.176 0.664 6.96 39.9 20.9 7.0 398. tp6(mm)= sep 0.252 0.823 8.84	oct 0.363 0.112 0.822 4.01 3.3 14.7 0.5 272. cot 0.364 0.119 0.733 4.55 16.8 13.9 1.1 269. 91.4 oct 0.505 0.244 0.775 8.23	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161. 86.4 nov 0.393 0.155 1.038 1.98 22.4 2.9 -7.1 159. nov 0.613 0.352 0.748 6.78	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124. dec 0.469 0.169 1.115 1.52 16.3 -4.0 -14.1 120. dec 0.626 0.419 0.762
NORTH DAKOT month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) NORTH DAKOT month prw2(m) prw1(m) alfg(m) tamx(m) tamx(m) tamx(m) tamx(m) tamn(m) ra(m) OHIO - CLEV month prw2(m) prw1(m) alfg(m) ci(m) ci(m)	TA - BISMA jan 0.354 0.227 1.184 1.42 1.8 -6.6 -18.8 157. TA - WILLI jan 0.409 0.227 1.006 1.78 24.1 -6.8 -17.7 156./ELAND jan 0.598 0.470 0.702 5.56 4.8	RCK a feb 0.393 0.188 0.935 1.88 1.8 -4.8 -16.6 250. STON feb 0.374 0.204 1.009 1.96 16.5 -4.8 -15.7 254. alat(deg feb 0.606 0.452 0.781 4.55 9.1	lat(deg)= mar 0.372 0.205 0.803 2.54 3.3 2.6 -8.6 356. alat(deg)= mar 0.349 0.206 1.117 1.47 26.9 2.2 -8.3 372. )= 41.42 mar 0.583 0.432 0.780 5.97 7.1	46.77 yr apr 0.477 0.187 0.704 6.35 7.1 12.6 -0.2 447. 48.18 y apr 0.397 0.187 0.731 6.38 31.8 12.2 -0.1 451. yrs= 16. apr 0.584 0.404 0.811 7.67 13.5	s= 18. may 0.480 0.261 0.698 8.33 18.0 19.6 5.7 550. rs= 41. may 0.469 0.189 0.728 7.29 21.8 19.0 6.1 559. elev may 0.506 0.319 0.794 8.41 19.6	elev (m) jun 0.519 0.328 0.673 10.72 13.5 24.6 11.2 590. elev (m jun 0.480 0.322 0.689 9.14 45.7 23.3 11.2 598. (m)= 239.9 jun 0.438 0.290 0.769 9.63 37.6	= 502.9 t jul 0.412 0.249 0.690 8.53 23.9 29.7 14.8 617. )= 572.1 jul 0.396 0.240 0.644 8.76 72.4 28.6 14.6 623. tp05(mm) jul 0.395 0.292 0.639 13.21 33.3	p05 (mm) aug 0.330 0.277 0.626 8.15 20.1 28.5 12.9 516. tp05 (mm aug 0.297 0.384 0.3	= 54.6 tp sep 0.344 0.200 0.755 5.74 25.1 22.2 7.2 390. )= 46.2 ts sep 0.383 0.176 0.664 6.96 39.9 20.9 7.0 398. tp6(mm)= sep 0.429 0.429 0.823 8.84 17.0	oct (mm) = oct (mm) = oct (mm) = 0.363 (mm) = 0.822 (mm) = 0.5272 (mm) = 0.364 (mm) = 0.733 (mm) = 0.733 (mm) = 0.505 (mm) = 0.744 (mm) = 0.733 (mm)	95.3 nov 0.445 0.139 0.828 2.74 1.5 3.5 -7.5 161. 86.4 nov 0.393 0.155 1.038 1.98 22.4 2.9 -7.1 159. nov 0.613 0.352 0.748 6.78 5.8	dec 0.437 0.197 1.076 1.45 2.8 -3.6 -14.7 124. dec 0.469 0.169 1.115 1.52 16.3 -4.0 -14.1 120. dec 0.626 0.419 0.762 5.00 5.8

OHIO - COL	LUMPLIC	alat(deg)	- 40 00	vec= 70	alau	(=)= 2/8 /	4=0E/>	- E/ 4	h={/==>	06 5		
month		feb	7- 40.00 mar	yrs= 79.	may	(m)= 248.4 jun	ipus(imi)	aug	tp6(mm)= sep	oct	nov	dec
prw2(m)		0.480	0.516	0.545	0.500	0.463	0.391	0.350	0.418	0.423	0.509	0.502
prw1(m)		0.359	0.384	0.360	0.328	0.276	0.323	0.230	0.216	0.205	0.288	0.329
alfg(m)		0.757	0.664	0.788	0.754	0.733	0.720	0.822	0.766	0.879	0.740	0.739
betg(m)		6.68	9.12	9.09	10.74	12.42	13.79	10.64	9.58	6.40	7.85	6.78
ri(m)	5.6	8.4	13.0	10.4	19.3	27.7	40.9	33.0	21.1	6.6	16.8	5.6
tamx(m)	3.2	4.2	9.7	16.3	22.5	27.9	30.1	28.9	25.7	18.9	10.4	4.1
tamn(m)		-5.1	-1.1	3.8	9.5	15.1	17.0	16.0	12.6	6.1	0.6	-4.5
ra(m)	128.	200.	297.	391.	471.	562.	542.	477.	422.	286.	176.	129.
OHIO - TOL		lat(deg)=		s= 87.			tp05(mm)=		6(mm)= 9			
month		feb	mar	apr	May 0 F10	jun 0 (50	jul	aug	sep	oct	nov	dec
prw2(m)		0.450 0.326	0.515 0.364	0.520 0.366	0.519 0.287	0.459 0.252	0.392 0.260	0.364	0.433 0.251	0.431 0.186	0.505 0.2 <b>7</b> 9	0.521
prw1(m) alfg(m)		0.752	0.724	0.745	0.802	0.252	0.260	0.229	0.755	0.100	0.279	0.363
betg(m)		5.79	6.38	7.75	7.95	11.02	12.80	12.90	8.15	9.68	7.29	7.19
ri(m)		10.7	8.9	8.6	16.3	25.9	16.3	27.2	14.0	11.9	8.1	11.9
tamx(m)	1.5	2.2	7.6	14.4	21.3	27.1	29.6	28.3	24.4	17.7	9.4	2.7
tamn(m)	-7.8	-7.4	-3.3	1.7	7.8	13.6	16.1	14.9	11.4	5.3	-0.7	-6.2
ra(m)	126.	204.	302.	386.	468.	544.	561.	487.	382.	275.	144.	109.
OKLAHOMA -	OKLAHOMA	CITY	alat(deg)	= 35.40	yrs= <b>30</b> .	elev (r	n)= 391.7	tp05(mm	1)= 81.3	tp6(mm)=	158.8	
month		feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.370	0.415	0.450	0.399	0.492	0.447	0.407	0.328	0.360	0.374	0.424	0.396
prw1(m)	0.123	0.172	0.179	0.197	0.217	0.205	0.175	0.190	0.190	0.117	0.100	0.125
alfg(m)	0.703	0.744	0.669	0.660	0.632	0.664	0.707	0.696	0.608	0.638	0.616	0.644
betg(m)	6.27	6.48	9.83	16.21	22.17	17.68	14.53	14.00	22.35	22.02	13.44	8.92
ri(m)	8.1 7.7	11.4 10.7	28.4 15.3	25.1 21.4	42.4 25.6	55.4 30.8	39.1 33.8	28.4 34.2	31.8 29.3	22.9 23.3	26.7 14.9	6.9
tamx(m) tamn(m)	-2.2	-0.4	3.1	9.5	14.8	20.3	22.3	22.2	17.2	11.0	3.3	9.6
ra(m)	251.	319.	409.	494.	536.	615.	610.	593.	487.	377.	291.	240.
1 01 (111)												
OKLAHOMA -	TULSA									160.0		
OKLAHOMA - month			)= 36.18 mar	yrs= 31. apr		(m)= 198.		i)= 81.3 aug	tp6(mm)= sep	160.0 oct	nov	dec
		alat(deg	)= 36.18	yrs= 31.	elev	(m)= 198.° jun 0.413	tp05(mm	)= 81.3	tp6(mm)=			
month	jan 0.404 0.146	alat(deg feb 0.438 0.184	0.414 0.205	yrs= 31. apr 0.461 0.231	elev may 0.483 0.260	(m)= 198.1 jun 0.413 0.217	tp05(mm jul 0.422 0.186	aug 0.326 0.171	tp6(mm)= sep 0.399 0.193	oct 0.427 0.133	nov 0.392 0.146	dec 0.422 0.165
month prw2(m) prw1(m) alfg(m)	jan 0.404 0.146 0.711	alat(deg feb 0.438 0.184 0.757	0.414 0.205 0.672	yrs= 31. apr 0.461 0.231 0.707	elev may 0.483 0.260 0.658	(m)= 198.1 jun 0.413 0.217 0.647	tp05(mm jul 0.422 0.186 0.591	0.326 0.171 0.662	tp6(mm)= sep 0.399 0.193 0.638	oct 0.427 0.133 0.582	nov 0.392 0.146 0.605	dec 0.422 0.165 0.625
month pr⊌2(m) pr⊌1(m) alfg(m) betg(m)	jan 0.404 0.146 0.711 7.65	alat(deg feb 0.438 0.184 0.757 7.80	0.414 0.205 0.672 12.55	yrs= 31. apr 0.461 0.231 0.707 16.00	may 0.483 0.260 0.658 16.81	(m)= 198.1 jun 0.413 0.217 0.647 19.23	tp05(mm jul 0.422 0.186 0.591 23.09	aug 0.326 0.171 0.662 16.81	tp6(mm)= sep 0.399 0.193 0.638 20.73	oct 0.427 0.133 0.582 23.16	nov 0.392 0.146 0.605 13.89	dec 0.422 0.165 0.625 9.70
month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	jan 0.404 0.146 0.711 7.65 7.6	alat(deg feb 0.438 0.184 0.757 7.80 8.1	0.414 0.205 0.672 12.55 25.7	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4	may 0.483 0.260 0.658 16.81 33.0	(m)= 198. jun 0.413 0.217 0.647 19.23 32.0	tp05(mm jul 0.422 0.186 0.591 23.09 36.3	aug 0.326 0.171 0.662 16.81 35.6	tp6(mm)= sep 0.399 0.193 0.638 20.73 33.0	oct 0.427 0.133 0.582 23.16 31.8	nov 0.392 0.146 0.605 13.89 37.3	dec 0.422 0.165 0.625 9.70 17.0
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	jan 0.404 0.146 0.711 7.65 7.6	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9	)= 36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4	may 0.483 0.260 0.658 16.81 33.0 25.5	(m)= 198.6 jun 0.413 0.217 0.647 19.23 32.0 30.7	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8	aug 0.326 0.171 0.662 16.81 35.6 33.9	tp6(mm)= sep 0.399 0.193 0.638 20.73 33.0 29.8	oct 0.427 0.133 0.582 23.16 31.8 23.9	nov 0.392 0.146 0.605 13.89 37.3 14.8	dec 0.422 0.165 0.625 9.70 17.0 9.4
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	jan 0.404 0.146 0.711 7.65 7.6 7.7	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3	)= 36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4 8.4	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3	(m)= 198. jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9	0.326 0.171 0.662 16.81 35.6 33.9 21.1	tp6(mm)= sep 0.399 0.193 0.638 20.73 33.0 29.8 16.6	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m)	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205.	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289.	)= 36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390.	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4 8.4 454.	0.483 0.260 0.658 16.81 33.0 25.5 14.3	(m)= 198. jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600.	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596.	aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545.	tp6(mm)= sep 0.399 0.193 0.638 20.73 33.0 29.8 16.6 455.	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354.	nov 0.392 0.146 0.605 13.89 37.3 14.8	dec 0.422 0.165 0.625 9.70 17.0 9.4
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) OREGON - B	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205.	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)=	n)= 36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390.	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4 8.4 454.	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3 504.	(m)= 198. jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. n)=1261.9	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm)=	aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545.	tp6(mm)= sep 0.399 0.193 0.638 20.73 33.0 29.8 16.6 455. p6(mm)=	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354.	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269.	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209.
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) OREGON - B	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205. URNS	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)= feb	)= 36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390. 43.58 y	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4 8.4 454. rrs= 21. apr	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3 504. elev (may	(m)= 198.6 jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. n)=1261.9 jun	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm)=	1)= 81.3 aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545.	tp6(mm)=     sep     0.399     0.193     0.638     20.73     33.0     29.8     16.6     455. p6(mm)=     sep	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354. 38.1 oct	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269.	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209.
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) OREGON - B month prw2(m)	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205. URNS a jan 0.566	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)= feb 0.519	)= 36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390. 43.58 y mar 0.545	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4 8.4 454. rrs= 21. apr 0.438	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3 504. elev (n may 0.468	(m)= 198.6 jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. n)=1261.9 jun 0.433	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm)= jul 0.255	a)= 81.3 aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545. 21.6 taug 0.352	tp6(mm)=     sep     0.399     0.193     0.638     20.73     33.0     29.8     16.6     455. p6(mm)=     sep     0.339	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354. 38.1 oct 0.508	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269.	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209. dec 0.606
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) OREGON - B month prw2(m) prw1(m)	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205. URNS jan 0.566 0.353	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)= feb 0.519 0.223	)= 36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390. 43.58 y	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4 8.4 454. 454. 458. 0.178	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3 504. elev (may	(m)= 198.6 jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. n)=1261.9 jun	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm)=	1)= 81.3 aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545.	tp6(mm)=     sep     0.399     0.193     0.638     20.73     33.0     29.8     16.6     455. p6(mm)=     sep	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354. 38.1 oct	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269.	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209.
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamxn(m) ra(m) OREGON - B month prw2(m) prw1(m) alfg(m)	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205. URNS a jan 0.566	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)= feb 0.519	)= 36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390. 43.58 y mar 0.545 0.233	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4 8.4 454. rrs= 21. apr 0.438	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3 504. elev (n may 0.468 0.180	(m)= 198. jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. n)=1261.9 jun 0.433 0.157	tp05(mm) jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm) = jul 0.255 0.067	aug 0.326 0.171 0.662 16.81 35.6 21.1 545. 21.6 to aug 0.352 0.082	tp6(mm)=     sep     0.399     0.193     0.638     20.73     33.0     29.8     16.6     455. p6(mm)=     sep     0.339     0.072	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354. 38.1 oct 0.508 0.127	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269. nov 0.596 0.201	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209. dec 0.606 0.243
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) OREGON - B month prw2(m) prw1(m)	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205. URNS i jan 0.566 0.353 0.910	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)= feb 0.519 0.223 0.890	)= 36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390. 43.58 y mar 0.545 0.233 0.998	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4 8.4 454. rrs= 21. apr 0.438 0.178 0.927	0.483 0.260 0.658 16.81 33.0 25.5 14.3 504. elev (n may 0.468 0.180 0.986	(m)= 198. jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. n)=1261.9 jun 0.433 0.157 0.930	tp05(mm) jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm) = jul 0.255 0.067 0.868	aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545. 21.6 to aug 0.352 0.082 0.792	tp6(mm)=     sep     0.399     0.193     0.638     20.73     33.0     29.8     16.6     455. p6(mm)=     sep     0.339     0.072	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354. 38.1 oct 0.508 0.127 0.738	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269. nov 0.596 0.201 0.998	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209. dec 0.606 0.243 0.897
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) OREGON - B month prw2(m) prw1(m) alfg(m) betg(m)	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205. URNS jan 0.566 0.353 0.910	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)= feb 0.519 0.223 0.890 3.61	)= 36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390. 43.58 y mar 0.545 0.233 0.998 2.44	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4 8.4 454. 454. 47s= 21. apr 0.438 0.178 0.927 2.72	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3 504. elev (n may 0.468 0.180 0.986 3.20 4.6 20.7	(m)= 198. jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. n)=1261.9 jun 0.433 0.157 0.930 3.53	tp05(mm) jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm) = jul 0.255 0.067 0.868 3.76	a)= 81.3 aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545. 21.6 taug 0.352 0.082 0.792 4.17	tp6(mm)=     sep     0.399     0.193     0.638     20.73     33.0     29.8     16.6     455. p6(mm)=     sep     0.339     0.072     0.657     6.68	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354. 38.1 oct 0.508 0.127 0.738 5.16	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269. nov 0.596 0.201 0.998 3.71	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209. dec 0.606 0.243 0.897 4.27
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) oREGON - B month prw2(m) prw1(m) alfg(m) betg(m)	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205. URNS jan 0.566 0.353 0.910 3.86 3.0 1.9	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)= feb 0.519 0.223 0.890 3.61 1.8 5.5 -6.4	n)= 36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390. 43.58 y mar 0.545 0.233 0.998 2.44 3.8 10.8	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 8.4 454. 454. 458 0.178 0.927 2.72 5.1 16.1 0.1	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3 504. elev (n may 0.468 0.180 0.986 3.20 4.6 20.7	(m)= 198. jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. n)=1261.9 jun 0.433 0.157 0.930 3.53 5.1 24.3 7.4	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm)= jul 0.255 0.067 0.868 3.76 7.1 30.7 11.2	a)= 81.3 aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545. 21.6 t aug 0.352 0.082 0.792 4.17 4.1 29.4 9.7	tp6(mm)=     sep     0.399     0.193     0.638     20.73     33.0     29.8     16.6     455. p6(mm)=     sep     0.339     0.072     0.657     6.68     2.5     24.5     4.7	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354. 38.1 oct 0.508 0.127 0.738 5.16 2.8 17.6 -0.7	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269. nov 0.596 0.201 0.998 3.71 2.0 9.6 -4.7	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209. dec 0.606 0.243 0.897 4.27 2.0 3.4 -8.3
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) OREGON - B month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m)	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205. URNS jan 0.566 0.353 0.910 3.86 3.0 1.9	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)= feb 0.519 0.223 0.890 3.61 1.8 5.5 -6.4 236.	1)= 36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390. 43.58 y mar 0.545 0.233 0.998 2.44 3.8 10.8 -3.2 342.	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 8.4 454. 454. 47s= 21. apr 0.438 0.178 0.927 2.72 5.1 16.1 0.1 485.	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3 504. elev (n may 0.468 0.180 0.986 3.20 4.6 20.7 3.8	(m)= 198. jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. n)=1261.9 jun 0.433 0.157 0.930 3.53 5.1 24.3 7.4 636.	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm)= jul 0.255 0.067 0.868 3.76 7.1 30.7 11.2 670.	a)= 81.3 aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545. 21.6 t aug 0.352 0.082 0.792 4.17 4.1 29.4 9.7 576.	tp6(mm)=     sep     0.399     0.193     0.638     20.73     33.0     29.8     16.6     455. p6(mm)=     sep     0.339     0.072     0.657     6.68     2.5     24.5     4.7     460.	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354. 38.1 oct 0.508 0.127 0.738 5.16 2.8 17.6 -0.7 301.	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269. nov 0.596 0.201 0.998 3.71 2.0 9.6	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209. dec 0.606 0.243 0.897 4.27 2.0 3.4
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) oREGON - B month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) camx(m) camx(m) camx(m) camx(m) camx(m) camx(m)	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205. URNS jan 0.566 0.353 0.910 3.86 3.00 1.9 -11.0 138.	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)= feb 0.519 0.223 0.890 3.61 1.8 5.5 -6.4 236. alat(deg	36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390. 43.58 y mar 0.545 0.233 0.998 2.44 10.8 -3.2 342.	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4 8.4 454. 454. 458 0.178 0.927 2.72 5.1 16.1 0.1 485. yrs= 13.	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3 504. elev (n may 0.468 0.180 0.986 3.20 4.6 20.7 3.8 585. elev	(m)= 198.6 jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. n)=1261.9 jun 0.433 0.157 0.930 3.53 5.1 24.3 7.4 636. (m)=1234.4	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm)= jul 0.255 0.067 0.868 3.76 7.1 30.7 11.2 670. tp05(mm)= jul 0.255 0.067 0.	a)= 81.3 aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545. 21.6 t aug 0.352 0.082 0.792 4.17 4.1 29.4 9.7 576.	tp6(mm)=     sep     0.399     0.193     0.638     20.73     33.0     29.8     16.6     455. p6(mm)=     sep     0.339     0.072     0.657     6.68     2.5     24.5     4.7     460. tp6(mm)=	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354. 38.1 oct 0.508 0.127 0.738 5.16 2.8 17.6 -0.7 301. 27.7	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269. nov 0.596 0.201 0.998 3.71 2.0 9.6 -4.7 182.	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209. dec 0.606 0.243 0.897 4.27 2.0 3.4 -8.3 124.
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) oregon - M month	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205. URNS jan 0.566 0.353 0.910 3.86 3.0 1.9 -11.0 138. EACHUM	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)= feb 0.519 0.223 0.890 3.61 1.8 5.5 -6.4 236. alat(deg feb	36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390. 43.58 y mar 0.545 0.233 0.998 2.44 3.8 10.8 10.8 10.8 10.8	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4 8.4 454. 454. 458. 0.178 0.927 2.72 5.1 16.1 0.1 485. yrs= 13. apr	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3 504. elev (n may 0.468 0.180 0.986 3.20 4.6 20.7 3.8 585. elev may	(m)= 198.6 jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. n)=1261.9 jun 0.433 0.157 0.930 3.53 5.1 24.3 7.4 636. (m)=1234.4 jun	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm)= jul 0.255 0.067 0.868 3.76 7.1 30.7 11.2 670. tp05(mm jul	1)= 81.3 aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545. 21.6 t aug 0.352 0.082 0.792 4.17 4.1 29.4 9.7 576.	tp6(mm)=     sep     0.399     0.193     0.638     20.73     33.0     29.8     16.6     455. p6(mm)=     sep     0.339     0.072     0.657     6.68     2.5     24.5     4.7     460. tp6(mm)=     sep	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354. 38.1 oct 0.508 0.127 0.738 5.16 2.8 17.6 -0.7 301. 27.7	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269. nov 0.596 0.201 0.998 3.71 2.0 9.6 -4.7 182.	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209. dec 0.606 0.243 0.897 4.27 2.0 3.4 -8.3 124.
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) oREGON - B month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) oREGON - M month	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205. URNS jan 0.566 0.353 0.910 3.86 3.0 1.9 -11.0 138. EACHUM jan 0.737	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)= feb 0.519 0.223 0.890 3.61 1.8 5.5 -6.4 236. alat(deg	1)= 36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390. 43.58 y mar 0.545 0.233 0.998 2.44 3.8 10.8 -3.2 342. 1)= 45.50 mar 0.713	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4 8.4 454. 454. 458 0.178 0.927 2.72 5.1 16.1 0.1 485. yrs= 13. apr 0.663	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3 504. elev (n may 0.468 0.180 0.986 3.20 4.6 20.7 3.8 585. elev may 0.610	(m)= 198.6 jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. n)=1261.9 jun 0.433 0.157 0.930 3.53 5.1 24.3 7.4 636. (m)=1234.4 jun 0.556	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm)= jul 0.255 0.067 0.868 3.76 7.1 30.7 11.2 670. tp05(mm jul 0.299	a)= 81.3 aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545. 21.6 aug 0.352 0.792 4.17 4.1 29.4 9.7 576. 0.536	tp6(mm)=     sep     0.399     0.193     0.638     20.73     33.0     29.8     16.6     455. p6(mm)=     sep     0.339     0.072     0.657     6.68     2.5     24.5     4.7     460. tp6(mm)=     sep     0.521	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354. 38.1 oct 0.508 0.127 0.738 5.16 2.8 17.6 -0.7 301. 27.7 oct 0.633	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269. nov 0.596 0.201 0.998 3.71 2.0 9.6 -4.7 182. nov	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209. dec 0.606 0.243 0.897 4.27 2.0 3.4 -8.3 124. dec 0.716
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) oREGON - B month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) oREGON - M month	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205. URNS jan 0.566 0.353 0.910 3.86 3.0 1.9 -11.0 138. EACHUM jan 0.737	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)= feb 0.519 0.223 0.890 3.61 1.8 5.5 -6.4 236. alat(deg feb 0.729 0.331	36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390. 43.58 y mar 0.545 0.233 0.998 2.44 3.8 10.8 -3.2 342. (1) = 45.50 mar 0.713 0.311	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4 8.4 454. 454. 454. 458 0.178 0.927 2.72 5.1 16.1 0.1 485. yrs= 13. apr 0.663 0.291	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3 504. elev (n may 0.468 0.180 0.986 3.20 4.6 20.7 3.8 585. elev may 0.610	(m)= 198. jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. n)=1261.9 jun 0.433 0.157 0.930 3.53 5.1 24.3 7.4 636. (m)=1234.4 jun 0.556 0.216	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm) = jul 0.255 0.067 0.868 3.76 7.1 30.7 11.2 670. tp05(mm jul 0.299 0.080	a)= 81.3 aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545. 21.6 taug 0.352 0.792 4.17 4.1 29.4 9.7 576. 25.4 aug 0.536 0.100	tp6(mm)=     sep     0.399     0.193     0.638     20.73     33.0     29.8     16.6     455. p6(mm)=     sep     0.339     0.657     6.68     2.5     24.5     4.7     460. tp6(mm)=     sep     0.521     0.129	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354. 38.1 oct 0.508 0.127 0.738 5.16 2.8 17.6 -0.7 301. 27.7 oct 0.633 0.194	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269. nov 0.596 0.201 0.998 3.71 2.0 9.6 -4.7 182. nov 0.721 0.298	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209. dec 0.606 0.243 0.897 4.27 2.0 3.4 -8.3 124. dec 0.716 0.371
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) OREGON - B month prw2(m) prw1(m) alfg(m) tamx(m) tamx(m) tamn(m) ra(m) OREGON - m month prw2(m) prw1(m) alfg(m)	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205. URNS i jan 0.566 0.353 0.910 3.86 3.0 1.9 -11.0 138. EACHUM jan 0.737 0.484	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)= feb 0.519 0.223 0.890 3.61 1.8 5.5 -6.4 236. alat(deg feb 0.729 0.331 0.900	36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390. 43.58 y mar 0.545 0.233 0.998 2.44 3.8 10.8 -3.2 342. (1)= 45.50 mar 0.713 0.311 0.998	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4 8.4 454. 454. 458 0.178 0.927 2.72 5.1 16.1 0.1 485. yrs= 13. apr 0.663 0.291 0.919	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3 504. elev (n may 0.468 0.180 0.986 3.20 4.6 20.7 3.8 585. elev may 0.610 0.270	(m)= 198. jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. n)=1261.9 jun 0.433 0.157 0.930 3.53 5.1 24.3 7.4 636. (m)=1234.4 jun 0.556 0.216 0.838	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm)= jul 0.255 0.067 0.868 3.76 7.1 30.7 11.2 670. tp05(mm jul 0.299 0.080 0.816	a)= 81.3 aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545. 21.6 t aug 0.352 0.792 4.17 4.1 29.4 9.7 576. 25.4 aug 0.536 0.100 0.688	tp6(mm)=     sep     0.399     0.193     0.638     20.73     33.0     29.8     16.6     455. p6(mm)=     sep     0.339     0.072     0.657     6.68     2.5     24.5     4.7     460. tp6(mm)=     sep     0.521     0.129     0.792	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354. 38.1 oct 0.508 0.127 0.738 5.16 -0.7 301. 27.7 oct 0.633 0.194 0.801	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269. nov 0.596 0.201 0.998 3.71 2.0 9.6 -4.7 182. nov 0.721 0.298 0.927	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209. dec 0.606 0.243 0.897 4.27 2.0 3.4 -8.3 124. dec 0.716 0.371 0.906
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) OREGON - B month prw2(m) prw1(m) alfg(m) betg(m) ra(m) OREGON - M month prw2(m) prw1(m) tamx(m) tamx	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205. URNS jan 0.566 0.353 0.910 3.86 3.0 1.9 -11.0 138. EACHUM jan 0.737 0.484 0.844 7.09	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)= feb 0.519 0.223 0.890 3.61 1.8 5.5 -6.4 236. alat(deg feb 0.729 0.331 0.900 5.89	36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390. 43.58 y mar 0.545 0.233 0.998 2.44 3.8 10.8 -3.2 342. 10.8 -3.2 342. 10.998 4.67	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4 454. 454. 458 0.178 0.927 2.72 5.1 16.1 0.1 485. yrs= 13. apr 0.663 0.291 0.919 5.33	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3 504. elev (n may 0.468 0.180 0.986 3.20 4.6 20.7 3.8 585. elev may 0.610 0.270 0.920 4.88	(m)= 198. jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. n)=1261.9 jun 0.433 0.157 0.930 3.53 5.1 24.3 7.4 636. (m)=1234.4 jun 0.556 0.216 0.838 5.69	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm)= jul 0.255 0.067 0.868 3.76 7.1 30.7 11.2 670. tp05(mm jul 0.299 0.080 0.816 4.37	a)= 81.3 aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545. 21.6 t aug 0.352 0.082 0.792 4.17 4.1 29.4 9.7 576. 32.6 0.536 0.536 0.100 0.688 6.83	tp6(mm)=     sep     0.399     0.193     0.638     20.73     33.0     29.8     16.6     455. p6(mm)=     sep     0.339     0.072     0.657     6.68     2.5     24.5     4.7     460. tp6(mm)=     sep     0.521     0.792     7.72	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354. 38.1 oct 0.508 0.127 0.738 5.16 -0.7 301. 27.7 oct 0.633 0.194 0.801 7.80	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269. nov 0.596 0.201 0.998 3.71 2.0 9.6 -4.7 182. nov 0.721 0.298 0.927 6.91	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209. dec 0.606 0.243 0.897 4.27 2.0 3.4 -8.3 124. dec 0.716 0.371 0.906 7.14
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) OREGON - B month prw2(m) prw1(m) alfg(m) betg(m) ra(m) OREGON - M month prw2(m) prw1(m) tamx(m) tamx(m) tamx(m) ra(m) prw1(m) prw1(m) prw1(m) prw1(m) prw1(m) prw1(m)	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205. URNS jan 0.566 0.353 0.910 3.86 3.09 -11.0 138. EACHUM jan 0.737 0.484 0.844 7.09 3.6	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)= feb 0.519 0.223 0.890 3.61 1.8 5.5 -6.4 236. alat(deg feb 0.729 0.331 0.729 0.331 0.900 5.89 2.8	36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390. 43.58 y mar 0.545 0.233 0.998 2.44 3.8 10.8 -3.2 342. () = 45.50 mar 0.713 0.311 0.998 4.67 2.0	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4 454. 454. 458 0.178 0.927 2.72 5.1 16.1 0.1 485. yrs= 13. apr 0.663 0.291 0.919 5.33 6.6	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3 504. elev (n may 0.468 0.180 0.986 3.20 4.6 20.7 3.8 585. elev may 0.610 0.270 0.270 0.270 0.270	(m)= 198.6 jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. h)=1261.9 jun 0.433 0.157 0.930 3.53 5.1 24.3 7.4 636. (m)=1234.4 jun 0.556 0.216 0.838 5.69 3.6	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm) = jul 0.255 0.067 0.868 3.76 7.1 30.7 11.2 670. tp05(mm jul 0.299 0.0816 4.37 17.8	a)= 81.3 aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545. 21.6 t aug 0.352 0.082 0.792 4.17 4.1 29.4 9.7 576. 0.536 0.100 0.688 6.83 0.5	tp6(mm)=     sep     0.399     0.193     0.638     20.73     33.0     29.8     16.6     455. p6(mm)=     sep     0.339     0.072     0.657     6.68     2.5     24.5     4.7     460. tp6(mm)=     sep     0.521     0.129     0.792     7.72     3.6	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354. 38.1 oct 0.508 0.127 0.738 5.16 -0.7 301. 27.7 oct 0.633 0.194 0.801 7.80 2.5	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269. nov 0.596 0.201 0.998 3.71 2.0 9.6 -4.7 182. nov 0.721 0.298 0.927 6.91 5.3	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209. dec 0.606 0.243 0.897 4.27 2.0 3.4 -8.3 124. dec 0.716 0.371 0.906
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) OREGON - B month prw2(m) prw1(m) alfg(m) betg(m) ra(m) OREGON - M month prw2(m) prw1(m) tamx(m) tamx	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205. URNS jan 0.566 0.353 0.910 3.86 3.0 1.9 -11.0 138. EACHUM jan 0.737 0.484 0.844 7.09	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)= feb 0.519 0.223 0.890 3.61 1.8 5.5 -6.4 236. alat(deg feb 0.729 0.331 0.900 5.89	36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390. 43.58 y mar 0.545 0.233 0.998 2.44 3.8 10.8 -3.2 342. 10.8 -3.2 342. 10.998 4.67	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 21.4 454. 454. 458 0.178 0.927 2.72 5.1 16.1 0.1 485. yrs= 13. apr 0.663 0.291 0.919 5.33	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3 504. elev (n may 0.468 0.180 0.986 3.20 4.6 20.7 3.8 585. elev may 0.610 0.270 0.920 4.88	(m)= 198. jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. n)=1261.9 jun 0.433 0.157 0.930 3.53 5.1 24.3 7.4 636. (m)=1234.4 jun 0.556 0.216 0.838 5.69	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm)= jul 0.255 0.067 0.868 3.76 7.1 30.7 11.2 670. tp05(mm jul 0.299 0.080 0.816 4.37	a)= 81.3 aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545. 21.6 t aug 0.352 0.082 0.792 4.17 4.1 29.4 9.7 576. 32.6 0.536 0.536 0.100 0.688 6.83	tp6(mm)=     sep     0.399     0.193     0.638     20.73     33.0     29.8     16.6     455. p6(mm)=     sep     0.339     0.072     0.657     6.68     2.5     24.5     4.7     460. tp6(mm)=     sep     0.521     0.792     7.72	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354. 38.1 oct 0.508 0.127 0.738 5.16 -0.7 301. 27.7 oct 0.633 0.194 0.801 7.80	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269. nov 0.596 0.201 0.998 3.71 2.0 9.6 -4.7 182. nov 0.721 0.298 0.927 6.91	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209. dec 0.606 0.243 0.897 4.27 2.0 3.4 -8.3 124. dec 0.716 0.371 0.906 7.14 3.3
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) OREGON - B month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) prw1(m) prw1(m) prw1(m) prw1(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m)	jan 0.404 0.146 0.711 7.65 7.6 7.7 -3.1 205. URNS jan 0.566 0.353 0.910 3.86 3.0 1.9 -11.0 138. EACHUM jan 0.737 0.484 0.844 7.09 3.6	alat(deg feb 0.438 0.184 0.757 7.80 8.1 10.9 -1.3 289. alat(deg)= feb 0.519 0.223 0.890 3.61 1.8 5.5 -6.4 236. alat(deg feb 0.729 0.331 0.900 5.89 2.8	36.18 mar 0.414 0.205 0.672 12.55 25.7 15.6 2.3 390. 43.58 y mar 0.545 0.233 0.998 2.44 3.8 10.8 -3.2 342. 1)= 45.50 mar 0.713 0.311 0.998 4.67 2.0 5.5	yrs= 31. apr 0.461 0.231 0.707 16.00 27.4 8.4 454. 454. 47s= 21. apr 0.438 0.178 0.927 2.72 5.1 16.1 0.1 485. yrs= 13. apr 0.663 0.291 0.919 5.33 6.6 10.5	elev may 0.483 0.260 0.658 16.81 33.0 25.5 14.3 504. elev (n may 0.468 0.180 0.986 3.20 4.6 20.7 3.8 585. elev may 0.610 0.270 0.270 0.270 0.270 14.9	(m)= 198. jun 0.413 0.217 0.647 19.23 32.0 30.7 19.6 600. n)=1261.9 jun 0.433 0.157 0.930 3.53 5.1 24.3 7.4 636. (m)=1234.4 jun 0.556 0.216 0.838 5.69 3.6 18.7	tp05(mm jul 0.422 0.186 0.591 23.09 36.3 33.8 21.9 596. tp05(mm)= jul 0.255 0.067 0.868 3.76 7.1 30.7 11.2 670. tp05(mm jul 0.299 0.080 0.816 4.37 17.8 25.2	a)= 81.3 aug 0.326 0.171 0.662 16.81 35.6 33.9 21.1 545. 21.6 t aug 0.352 0.082 0.792 4.17 4.1 29.4 9.7 576. 0.536 0.100 0.688 6.83 0.5 24.6	tp6(mm)=     sep     0.399     0.193     0.638     20.73     33.0     29.8     16.6     455. p6(mm)=     sep     0.339     0.072     0.657     6.68     2.5     24.5     4.7     460. tp6(mn)=     sep     0.521     0.129     0.792     7.72     3.6     19.8	oct 0.427 0.133 0.582 23.16 31.8 23.9 10.3 354. 38.1 oct 0.508 0.127 0.738 5.16 -0.7 301. 27.7 oct 0.633 0.194 0.801 7.80 2.5	nov 0.392 0.146 0.605 13.89 37.3 14.8 2.5 269. nov 0.596 0.201 0.998 3.71 2.0 9.6 -4.7 182. nov 0.721 0.298 0.927 6.91 5.3 5.8	dec 0.422 0.165 0.625 9.70 17.0 9.4 -1.0 209. dec 0.606 0.243 0.897 4.27 2.0 3.4 -8.3 124. dec 0.716 0.371 0.906 7.14 3.3 1.7

dec 502 329 739 74 4.5 502 329 739 74 4.5 502 329 739 74 4.5 502 329 75 6.2 29, 502 6.9 9.6 3.9 6.9 9.6 3.9 6.9 9.6 3.9 6.9 9.6 3.9 6.9 9.7 0.9 7.7 0.

dec 1.606 1.243 1.897 4.27 2.0 3.4 -8.3 124. dec 0.371 3.906 7.14 3.3 1.7 -4.9

OREGON - MED		alat(deg)=		yrs= 28.		(m) = 399.9		n)= 26.7	tp6(mm)=	76.2		
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.655	0.557	0.588	0.534	0.538	0.452	0.344	0.367	0.318	0.529	0.627	0.657
prw1(m)	0.361	0.269	0.236	0.189	0.174	0.111	0.036	0.053	0.086	0.159	0.273	0.281
alfg(m)	0.703	0.608	0.876	0.946	0.791	0.985	0.579	0.998	0.724	0.678	0.692	0.654
betg(m)	8.79 3.8	8.74	4.42	2.82 9.9	4.83	3.51	7.52 4.8	3.89 9.9	6.30 7.6	8.56 4.3	8.76	10.72
ri(m)	7.0	4.6 11.1	5.6 15.1	18.7	12.4 22.9	7.4 26.6	31.6	31.5	27.6	20.2	4.1 12.3	6.9 7.3
tamx(m)	-1.2	0.7	1.8	3.8	6.8	9.9	12.6	11.9	8.4	4.7	1.2	-0.1
tamn(m) ra(m)	116.	215.	336.	482.	592.	652.	698.	605.	447.	279.	149.	93.
OREGON - PEN			330. 3)= 45.6			v (m)= 454.		(mm)= 26.7			147.	73.
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.571	0.535	0.485	0.434	0.452	0.364	0.232	0.391	0.383	0.462	0.521	0.551
prw1(m)	0.353	0.247	0.250	0.249	0.179	0.163	0.067	0.078	0.108	0.174	0.275	0.369
alfg(m)	0.966	0.977	0.998	0.938	0.874	0.843	0.957	0.932	0.913	0.813	0.933	0.909
betg(m)	3.40	2.82	2.54	2.74	4.14	3.68	2.44	2.82	3.78	3.96	3.53	3.02
ri(m)	2.0	4.1	5.3	3.6	4.1	3.8	16.8	19.0	4.8	2.8	3.8	5.1
tamx(m)	2.7	6.9	12.5	17.3	22.3	26.2	31.7	30.4	25.1	17.7	8.4	5.2
tamn(m)	-4.3	-1.8	2.1	5.2	8.6	12.3	15.5	14.7	11.1	6.2	1.7	-1.6
ra(m)	117.	222.	351.	521.	616.	680.	707.	604.	458.	274.	136.	100.
OREGON - POR		alat(deg)	= 45.60	yrs= 55.	elev	(m) = 9.4		nm)= 25.4	tp6(mm)=	104.1		
month	jan	feb	mar	арг	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.802	0.697	0.726	0.634	0.619	0.561	0.386	0.585	0.497	0.684	0.775	0.752
prw1(m)	0.425	0.357	0.344	0.309	0.236	0.188	0.071	0.082	0.172	0.232	0.324	0.443
alfg(m)	0.830	0.840	0.998	0.945	0.853	0.854	0.788	0.843	0.790	0.962	0.869	0.879
betg(m)	9.37	7.70	5.36	4.50	4.98	5.26	3.66	5.69	6.07	6.83	8.71	8.94
ri(m)	7.9	9.1	4.3	5.6	10.4	11.2	9.4	9.7	6.3	6.1	5.6	6.1
tamx(m)	6.8	9.7	13.1	16.8	20.3	22.8	26.2	26.0	23.0	17.5	11.5	8.2
tamn(m)	1.5	3.3	5.1	7.2	9.8	12.4	14.3	14.4	12.4	9.3	5.4	3.3
ra(m)	92.	164.	272.	377.	494.	471.	541.	463.	356.	211.	113.	81.
OREGON - SAL month	ian jan	lat(deg)= 4 feb	mar		elev (m)	)= 59.4 1 jun	-رهان) دنون jul	20.2 (£	6(mm)= 10	o./	DOV	dec
prw2(m)	0.791	0.728	0.750	apr 0.638	may 0.611	0.555	0.404	0.494	sep 0.507	0.659	nov 0.776	0.755
prw1(m)	0.411	0.341	0.293	0.304	0.215	0.151	0.045	0.086	0.148	0.233	0.339	0.427
alfg(m)	0.866	0.763	0.964	0.867	0.998	0.776	0.826	0.829	0.722	0.866	0.833	0.827
betg(m)	11.05	9.65	6.86	5.03	4.37	5.61	3.76	3.99	7.52	8.56	9.65	11.02
ri(m)	6.3	6.1	6.9	4.3	9.7	8.4	5.6	5.8	6.1	6.3	7.4	6.9
tamx(m)	7.1											
tamn(m)			13.3	16.8	20.9	24.6		27.9				
	-0.1	10.2	13.3	16.8 4.7	20.9	24.6 9.7	28.4	27.9 10.9	24.7	18.1	11.6	8.3
ra(m)	-0.1 89.		13.3 3.1 287.	16.8 4.7 406.	20.9 7.1 517.	24.6 9.7 570.		27.9 10.9 558.		18.1 6.8	11.6 3.3	
ra(m) OREGON - SEX	89.	10.2 1.7 135.	3.1 287.	4.7	7.1 517.	9.7	28.4 11.2 676.	10.9 558.	24.7 9.1 397.	18.1 6.8 235.	11.6 3.3 144.	8.3 1.7
	89.	10.2 1.7 135.	3.1 287.	4.7 406.	7.1 517.	9.7 5 <b>70</b> .	28.4 11.2 676.	10.9 558.	24.7 9.1 397.	18.1 6.8	11.6 3.3 144.	8.3 1.7
OREGON - SEX	89. TON SUMM	10.2 1.7 135. IT alat	3.1 287. t(deg)=	4.7 406. 42.62 yrs apr 0.604	7.1 517. = 16.	9.7 570. elev (m)=	28.4 11.2 676. 1169.2 t	10.9 558. :p05(mm)=	24.7 9.1 397. 30.5 tp6	18.1 6.8 235. (mm)= 127	11.6 3.3 144.	8.3 1.7 80.
OREGON - SEX month	89. TON SUMMI jan	10.2 1.7 135. IT alat feb	3.1 287. t(deg)=	4.7 406. 42.62 yrs apr 0.604 0.230	7.1 517. = 16. may	9.7 570. elev (m)=1 jun	28.4 11.2 676. 1169.2 t	10.9 558. :p05(mm)= aug 0.426 0.053	24.7 9.1 397. 30.5 tp6 sep 0.489 0.101	18.1 6.8 235. (mm)= 127 oct	11.6 3.3 144. 7.0	8.3 1.7 80.
OREGON - SEX month prw2(m)	89. TON SUMMI jan 0.774 0.373 0.730	10.2 1.7 135. IT alat feb 0.689 0.312 0.712	3.1 287. t(deg)= mer 0.712	4.7 406. 42.62 yrs apr 0.604 0.230 0.835	7.1 517. = 16. may 0.602 0.179 0.776	9.7 570. elev (m)=' jun 0.476 0.126 0.890	28.4 11.2 676. 1169.2 t jul 0.212	10.9 558. :p05(mm)= aug 0.426	24.7 9.1 397. 30.5 tp6 sep 0.489 0.101 0.745	18.1 6.8 235. (mm)= 127 oct 0.632	11.6 3.3 144. 7.0 nov 0.719	8.3 1.7 80. dec 0.745
OREGON - SEX month prw2(m) prw1(m)	89. TON SUMMI jan 0.774 0.373 0.730 13.54	10.2 1.7 135. IT alan feb 0.689 0.312 0.712 10.90	3.1 287. t(deg)= mer 0.712 0.300 0.887 6.65	4.7 406. 42.62 yrs apr 0.604 0.230 0.835 5.66	7.1 517. = 16. may 0.602 0.179 0.776 7.04	9.7 570. elev (m)= jun 0.476 0.126 0.890 4.85	28.4 11.2 676. 1169.2 t jul 0.212 0.044	10.9 558. :p05(mm)= aug 0.426 0.053 0.749 6.71	24.7 9.1 397. 30.5 tp6 sep 0.489 0.101 0.745 7.75	18.1 6.8 235. (mm)= 127 oct 0.632 0.174 0.729 11.30	11.6 3.3 144. 7.0 nov 0.719 0.276	8.3 1.7 80. dec 0.745 0.286
OREGON - SEX month prw2(m) prw1(m) alfg(m)	89. TON SUMMI jan 0.774 0.373 0.730 13.54 5.6	10.2 1.7 135. IT alat feb 0.689 0.312 0.712 10.90 3.6	3.1 287. t(deg)= mer 0.712 0.300 0.887 6.65 21.6	4.7 406. 42.62 yrs apr 0.604 0.230 0.835 5.66 5.1	7.1 517. = 16. may 0.602 0.179 0.776 7.04 7.1	9.7 570. elev (m)= jun 0.476 0.126 0.890 4.85 48.5	28.4 11.2 676. 1169.2 jul 0.212 0.044 0.819 4.39 4.8	10.9 558. p05(mm)= aug 0.426 0.053 0.749 6.71 15.7	24.7 9.1 397. 30.5 tp6 sep 0.489 0.101 0.745 7.75 10.9	18.1 6.8 235. (mm)= 127 oct 0.632 0.174 0.729	11.6 3.3 144. 7.0 nov 0.719 0.276 0.694	8.3 1.7 80. dec 0.745 0.286 0.731 14.20 6.6
OREGON - SEX month prw2(m) prw1(m) alfg(m) betg(m)	89. TON SUMM! jan 0.774 0.373 0.730 13.54 5.6 5.3	10.2 1.7 135. IT alat feb 0.689 0.312 0.712 10.90 3.6 5.8	3.1 287. t(deg)= mer 0.712 0.300 0.887 6.65 21.6 8.4	4.7 406. 42.62 yrs apr 0.604 0.230 0.835 5.66 5.1 12.4	7.1 517. = 16. may 0.602 0.179 0.776 7.04 7.1 16.6	9.7 570. elev (m)=' jun 0.476 0.126 0.890 4.85 48.5 19.9	28.4 11.2 676. 1169.2 jul 0.212 0.044 0.819 4.39 4.8 24.7	10.9 558. :p05(mm)= aug 0.426 0.053 0.749 6.71 15.7 25.0	24.7 9.1 397. 30.5 tp6 sep 0.489 0.101 0.745 7.75 10.9 21.5	18.1 6.8 235. (mm)= 127 oct 0.632 0.174 0.729 11.30 7.6 14.9	11.6 3.3 144. 7.0 nov 0.719 0.276 0.694 14.66 7.1 8.4	8.3 1.7 80. dec 0.745 0.286 0.731 14.20 6.6 5.7
OREGON - SEX month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	89. TON SUMMI jan 0.774 0.373 0.730 13.54 5.6 5.3 -1.1	10.2 1.7 135. IT ala1 feb 0.689 0.312 0.712 10.90 3.6 5.8 -0.9	3.1 287. t(deg)= mar 0.712 0.300 0.887 6.65 21.6 8.4 -0.4	4.7 406. 42.62 yrs apr 0.604 0.230 0.835 5.66 5.1 12.4 1.2	7.1 517. = 16. may 0.602 0.179 0.776 7.04 7.1 16.6 3.9	9.7 570. elev (m)=' jun 0.476 0.126 0.890 4.85 48.5 19.9 6.8	28.4 11.2 676. 1169.2 jul 0.212 0.044 0.819 4.39 4.8 24.7 10.0	10.9 558. :p05(mm)= aug 0.426 0.053 0.749 6.71 15.7 25.0 10.2	24.7 9.1 397. 30.5 tp6 sep 0.489 0.101 0.745 7.75 10.9 21.5 9.4	18.1 6.8 235. (mm)= 127 oct 0.632 0.174 0.729 11.30 7.6 14.9 5.4	11.6 3.3 144. 7.0 nov 0.719 0.276 0.694 14.66 7.1 8.4 1.8	8.3 1.7 80. dec 0.745 0.286 0.731 14.20 6.6 5.7 -0.5
OREGON - SEX month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m)	89. TON SUMMI jan 0.774 0.373 0.730 13.54 5.6 5.3 -1.1 116.	10.2 1.7 135. IT alan feb 0.689 0.312 0.712 10.90 3.6 5.8 -0.9 215.	3.1 287. t(deg)= mar 0.712 0.300 0.887 6.65 21.6 8.4 -0.4 336.	4.7 406. 42.62 yrs apr 0.604 0.230 0.835 5.66 5.1 12.4 1.2 482.	7.1 517. = 16. may 0.602 0.179 0.776 7.04 7.1 16.6 3.9 592.	9.7 570. elev (m)=' jun 0.476 0.126 0.890 4.85 48.5 19.9 6.8 652.	28.4 11.2 676. 1169.2 jul 0.212 0.044 0.819 4.8 24.7 10.0 698.	10.9 558. 205 (mm) = aug 0.426 0.053 0.749 6.71 15.7 25.0 10.2 605.	24.7 9.1 397. 30.5 tp6 sep 0.489 0.101 0.745 7.75 10.9 21.5 9.4 447.	18.1 6.8 235. (mm)= 127 oct 0.632 0.174 0.729 11.30 7.6 14.9 5.4 279.	11.6 3.3 144. 7.0 nov 0.719 0.276 0.694 14.66 7.1 8.4 1.8 149.	8.3 1.7 80. dec 0.745 0.286 0.731 14.20 6.6 5.7
OREGON - SEX month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) PENNSYLVANIA	89. TON SUMMI jan 0.774 0.373 0.730 13.54 5.6 5.3 -1.1 116.	10.2 1.7 135. IT alan feb 0.689 0.312 0.712 10.90 3.6 5.8 -0.9 215.	3.1 287. t(deg)= mar 0.712 0.300 0.887 6.65 21.6 8.4 -0.4 336. alat(de	4.7 406. 42.62 yrs apr 0.604 0.230 0.835 5.66 5.1 12.4 1.2 482. g)= 39.88	7.1 517. = 16. may 0.602 0.179 0.776 7.04 7.1 16.6 3.9 592. yrs= 28.	9.7 570. elev (m)=' jun 0.476 0.126 0.890 4.85 48.5 19.9 6.8 652. elev (	28.4 11.2 676. 1169.2 jul 0.212 0.044 0.819 4.39 4.8 24.7 10.0 698. (m)= 1.	10.9 558. 1005 (mm) = aug 0.426 0.053 0.749 6.71 15.7 25.0 10.2 605. 5 tp05 (m	24.7 9.1 397. 30.5 tp6 sep 0.489 0.101 0.745 7.75 10.9 21.5 9.4 447. m)= 63.5	18.1 6.8 235. (mm)= 127 oct 0.632 0.174 0.729 11.30 7.6 14.9 5.4 279. tp6(mm)=	11.6 3.3 144. 7.0 nov 0.719 0.276 0.694 14.66 7.1 8.4 1.8 149.	8.3 1.7 80. dec 0.745 0.286 0.731 14.20 6.6 5.7 -0.5 93.
OREGON - SEX month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) PENNSYLVANIA month	89. TON SUMMI jan 0.774 0.373 0.730 13.54 5.6 5.3 -1.1 116. - PHILAL jan	10.2 1.7 135. IT alan feb 0.689 0.312 0.712 10.90 3.6 5.8 -0.9 215. DELPIA feb	3.1 287. t(deg)= mer 0.712 0.300 0.887 6.65 21.6 8.4 -0.4 336. alat(demar	4.7 406. 42.62 yrs apr 0.604 0.230 0.835 5.66 5.1 12.4 1.2 482. g)= 39.88 apr	7.1 517. = 16. may 0.602 0.179 0.776 7.04 7.1 16.6 3.9 592. yrs= 28. may	9.7 570. elev (m)=' jun 0.476 0.126 0.890 4.85 48.5 19.9 6.8 652. elev (	28.4 11.2 676. 1169.2 jul 0.212 0.044 0.819 4.39 4.8 24.7 10.0 698. (m)= 1.	10.9 558. :p05(mm)= aug 0.426 0.053 0.749 6.71 15.7 25.0 10.2 605. 5 tp05(m	24.7 9.1 397. 30.5 tp6 sep 0.489 0.101 0.745 7.75 10.9 21.5 9.4 447. m)= 63.5 sep	18.1 6.8 235. (mm)= 127 oct 0.632 0.174 0.729 11.30 7.6 14.9 5.4 279. tp6(mm)=	11.6 3.3 144. 7.0 nov 0.719 0.276 0.694 14.66 7.1 8.4 1.8 149. 132.1 nov	8.3 1.7 80. dec 0.745 0.286 0.731 14.20 6.6 5.7 -0.5 93. dec
OREGON - SEX month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) ra(m) PENNSYLVANIA month prw2(m)	89. TON SUMMI jan 0.774 0.373 0.730 13.54 5.6 5.3 -1.1 116. - PHILAT jan 0.464	10.2 1.7 135. IT alar feb 0.689 0.312 0.712 10.90 3.6 5.8 -0.9 215. DELPIA feb 0.393	3.1 287. t(deg)= mar 0.712 0.300 0.887 6.65 21.6 8.4 -0.4 336. alat(demar 0.438	4.7 406. 42.62 yrs apr 0.604 0.230 0.835 5.66 5.1 12.4 1.2 482. g)= 39.88 apr 0.459	7.1 517. = 16. may 0.602 0.179 0.776 7.04 7.1 16.6 3.9 592. yrs= 28. may 0.437	9.7 570. elev (m)=' jun 0.476 0.126 0.890 4.85 48.5 19.9 6.8 652. elev (jun 0.395	28.4 11.2 676. 1169.2 10.212 0.044 0.819 4.39 4.8 24.7 10.0 698. (m)= 1.	10.9 558. :p05(mm)= aug 0.426 0.053 0.749 6.71 15.7 25.0 10.2 605. 5 tp05(m aug 0.421	24.7 9.1 397. 30.5 tp6 sep 0.489 0.101 0.745 7.75 10.9 21.5 9.4 447. m)= 63.5 sep 0.407	18.1 6.8 235. (mm)= 127 oct 0.632 0.174 0.729 11.30 7.6 14.9 5.4 279. tp6(mm)= oct 0.381	11.6 3.3 144. 0 0.719 0.276 0.694 14.66 7.1 8.4 1.8 149. 132.1 nov 0.441	8.3 1.7 80. dec 0.745 0.286 0.731 14.20 6.6 5.7 -0.5 93. dec 0.478
OREGON - SEX month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) PENNSYLVANIA month prw2(m) prw1(m)	89. TON SUMMI jan 0.774 0.373 0.730 13.54 5.6 5.3 -1.1 116. - PHILAT jan 0.464 0.268	10.2 1.7 135. IT alar feb 0.689 0.312 0.712 10.90 3.6 5.8 -0.9 215. DELPIA feb 0.393 0.295	3.1 287. t(deg)= mar 0.712 0.300 0.887 6.65 21.6 8.4 -0.4 336. alat(demar 0.438 0.298	4.7 406. 42.62 yrs apr 0.604 0.230 0.835 5.66 5.1 12.4 1.2 482. 482. g)= 39.88 apr 0.459 0.313	7.1 517. = 16. may 0.602 0.179 0.776 7.04 7.1 16.6 3.9 592. yrs= 28. may 0.437 0.275	9.7 570. elev (m)=' jun 0.476 0.126 0.890 4.85 48.5 19.9 6.8 652. elev (jun 0.395 0.272	28.4 11.2 676. 1169.2 10.212 0.044 0.819 4.39 4.8 24.7 10.0 698. (m)= 1. jul 0.372 0.246	10.9 558. :p05(mm)= aug 0.426 0.053 0.749 6.71 15.7 25.0 10.2 605. 5 tp05(m	24.7 9.1 397. 30.5 tp6 sep 0.489 0.101 0.745 7.75 10.9 21.5 9.4 447. m)= 63.5 sep 0.407 0.185	18.1 6.8 235. (mm)= 127 oct 0.632 0.174 0.729 11.30 7.6 14.9 5.4 279. tp6(mm)= oct 0.381 0.171	11.6 3.3 144. 7.0 nov 0.719 0.276 0.694 14.66 7.1 8.4 1.8 149. 132.1 nov 0.441 0.257	8.3 1.7 80. dec 0.745 0.286 0.731 14.20 6.6 5.7 -0.5 93. dec 0.478 0.255
OREGON - SEX month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) PENNSYLVANIA month prw2(m) prw1(m) alfg(m)	89. TON SUMMI jan 0.774 0.373 0.730 13.54 5.6 5.3 -1.1 116. - PHILAI jan 0.464 0.268 0.749	10.2 1.7 135. IT alar feb 0.689 0.312 0.712 10.90 3.6 5.8 -0.9 215. DELPIA feb 0.393 0.295 0.757	3.1 287. t(deg)= mar 0.712 0.300 0.887 6.65 21.6 8.4 -0.4 336. alat(demar 0.438 0.298 0.811	4.7 406. 42.62 yrs apr 0.604 0.230 0.835 5.66 5.1 12.4 1.2 482. 482. 39.88 apr 0.459 0.313 0.759	7.1 517. = 16. may 0.602 0.179 0.776 7.04 7.1 16.6 3.9 592. yrs= 28. may 0.437 0.275 0.760	9.7 570. elev (m)=' jun 0.476 0.126 0.890 4.85 48.5 19.9 6.8 652. elev (jun 0.395 0.272 0.585	28.4 11.2 676. 1169.2 jul 0.212 0.044 0.819 4.39 4.8 24.7 10.0 698. (m)= 1. jul 0.372 0.246 0.664	10.9 558. :p05(mm)= aug 0.426 0.053 0.749 6.71 15.7 25.0 10.2 605. 5 tp05(m aug 0.426 0.256 0.668	24.7 9.1 397. 30.5 tp6 sep 0.489 0.101 0.745 7.75 10.9 21.5 9.4 447. m)= 63.5 sep 0.407 0.185 0.613	18.1 6.8 235. (mm)= 127 oct 0.632 0.174 0.729 11.30 7.6 14.9 5.4 279. tp6(mm)= oct 0.381 0.171 0.577	11.6 3.3 144. .0 nov 0.719 0.276 0.694 14.66 7.1 8.4 1.8 149. 132.1 nov 0.441 0.257 0.735	8.3 1.7 80. dec 0.745 0.286 0.731 14.20 6.6 5.7 -0.5 93. dec 0.478 0.255 0.673
OREGON - SEX month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) PENNSYLVANIA month prw2(m) prw1(m) alfg(m) betg(m)	89. TON SUMMI jan 0.774 0.373 0.730 13.54 5.6 5.3 -1.1 116. - PHILAT jan 0.464 0.268 0.749 8.69	10.2 1.7 135. IT alar feb 0.689 0.312 0.712 10.90 3.6 5.8 -0.9 215. DELPIA feb 0.393 0.295 0.757 9.86	3.1 287. t(deg)= mar 0.712 0.300 0.887 6.65 21.6 8.4 -0.4 336. alat(de mar 0.438 0.298 0.811 11.23	4.7 406. 42.62 yrs apr 0.604 0.230 0.835 5.66 5.1 12.4 1.2 482. g)= 39.88 apr 0.459 0.313 0.759 10.29	7.1 517. = 16. may 0.602 0.179 0.776 7.04 7.1 16.6 3.9 592. yrs= 28. may 0.437 0.275 0.760 9.27	9.7 570. elev (m)=' jun 0.476 0.126 0.890 4.85 48.5 19.9 6.8 652. elev ( jun 0.395 0.272 0.585 17.37	28.4 11.2 676. 1169.2 jul 0.212 0.044 0.819 4.39 4.8 24.7 10.0 698. (m)= 1. jul 0.372 0.246 0.664 16.89	10.9 558. 205 (mm) = aug 0.426 0.053 0.749 6.71 15.7 25.0 10.2 605. 5 tp05 (maug 0.421 0.256 0.668 15.62	24.7 9.1 397. 30.5 tp6 sep 0.489 0.101 0.745 7.75 10.9 21.5 9.4 447. m) = 63.5 sep 0.407 0.185 0.613 18.95	18.1 6.8 235. (mm)= 127 oct 0.632 0.174 0.729 11.30 7.6 14.9 5.4 279. tp6(mm)= oct 0.381 0.171 0.577 17.22	11.6 3.3 144. .0 nov 0.719 0.276 0.694 14.66 7.1 8.4 1.8 149. 132.1 nov 0.441 0.257 0.735 11.86	8.3 1.7 80. dec 0.745 0.286 0.731 14.20 6.6 5.7 -0.5 93. dec 0.478 0.255 0.673 12.75
OREGON - SEX month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) PENNSYLVANIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	89. TON SUMMI jan 0.774 0.373 0.730 13.54 5.6 5.3 -1.1 116. - PHILAT jan 0.464 0.268 0.749 8.69 8.9	10.2 1.7 135. IT alar feb 0.689 0.312 0.712 10.90 3.6 5.8 -0.9 215. DELPIA feb 0.393 0.295 0.757 9.86 8.6	3.1 287. t(deg)= mar 0.712 0.300 0.887 6.65 21.6 8.4 -0.4 336. alat(demar 0.438 0.298 0.811 11.23 11.2	4.7 406. 42.62 yrs apr 0.604 0.230 0.835 5.66 5.1 12.4 1.2 482. g)= 39.88 apr 0.459 0.313 0.759 10.29 13.7	7.1 517. = 16. may 0.602 0.179 0.776 7.04 7.1 16.6 3.9 592. yrs= 28. may 0.437 0.275 0.760 9.27 16.0	9.7 570. elev (m)=' jun 0.476 0.126 0.890 4.85 48.5 19.9 6.8 652. elev ( jun 0.395 0.272 0.585 17.37 30.0	28.4 11.2 676. 1169.2 jul 0.212 0.044 0.819 4.39 4.8 24.7 10.0 698. (m)= 1. jul 0.372 0.246 0.664 16.89 37.8	10.9 558. 205 (mm) = aug 0.426 0.053 0.749 6.71 15.7 25.0 10.2 605. 5 tp05 (m aug 0.421 0.256 0.668 15.62 29.5	24.7 9.1 397. 30.5 tp6 sep 0.489 0.101 0.745 7.75 10.9 21.5 9.4 447. m)= 63.5 sep 0.407 0.185 0.613 18.95 21.3	18.1 6.8 235. (mm)= 127 oct 0.632 0.174 0.729 11.30 7.6 14.9 5.4 279. tp6(mm)= oct 0.381 0.171 0.577 17.22 11.2	11.6 3.3 144. .0 nov 0.719 0.276 0.694 14.66 7.1 8.4 1.8 149. 132.1 nov 0.441 0.257 0.735 11.86 13.7	8.3 1.7 80. dec 0.745 0.286 0.731 14.20 6.6 5.7 -0.5 93. dec 0.478 0.255 0.673 12.75 8.9
OREGON - SEX month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) PENNSYLVANIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	89. TON SUMMI jan 0.774 0.373 0.730 13.54 5.6 5.3 -1.1 116 PHILAT jan 0.464 0.268 0.749 8.69 8.9 4.6	10.2 1.7 135. IT alat feb 0.689 0.312 0.712 10.90 3.6 5.8 -0.9 215. DELPIA feb 0.393 0.295 0.757 9.86 8.6 5.4	3.1 287. t(deg) = mar 0.712 0.300 0.887 6.65 21.6 8.4 -0.4 336. alat(demar 0.438 0.298 0.811 11.23 11.2 10.2	4.7 406. 42.62 yrs apr 0.604 0.230 0.835 5.66 5.1 12.4 1.2 482. g)= 39.88 apr 0.459 0.313 0.759 10.29 13.7 17.0	7.1 517. = 16. may 0.602 0.179 0.776 7.04 7.1 16.6 3.9 592. yrs= 28. may 0.437 0.275 0.760 9.27 16.0 23.0	9.7 570. elev (m)=' jun 0.476 0.126 0.890 4.85 48.5 19.9 6.8 652. elev ( jun 0.395 0.272 0.585 17.37 30.0 27.6	28.4 11.2 676. 1169.2 jul 0.212 0.044 0.819 4.39 4.8 24.7 10.0 698. (m)= 1. jul 0.372 0.246 0.664 16.89 37.8 29.9	10.9 558. 205 (mm) = aug 0.426 0.053 0.749 6.71 15.7 25.0 10.2 605. 5 tp05 (m aug 0.421 0.256 0.668 15.62 29.5 28.7	24.7 9.1 397. 30.5 tp6 sep 0.489 0.101 0.745 7.75 10.9 21.5 9.4 447. m)= 63.5 sep 0.407 0.185 0.613 18.95 21.3 25.1	18.1 6.8 235. (mm)= 127 oct 0.632 0.174 0.729 11.30 7.6 14.9 5.4 279. tp6(mm)= oct 0.381 0.171 0.577 17.22 11.2	11.6 3.3 144. .0 nov 0.719 0.276 0.694 14.66 7.1 8.4 1.8 149. 132.1 nov 0.441 0.257 0.735 11.86 13.7 12.2	8.3 1.7 80. dec 0.745 0.286 0.731 14.20 6.6 5.7 -0.5 93. dec 0.478 0.255 0.673 12.75 8.9 5.7
OREGON - SEX month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) PENNSYLVANIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	89. TON SUMMI jan 0.774 0.373 0.730 13.54 5.6 5.3 -1.1 116. - PHILAT jan 0.464 0.268 0.749 8.69 8.9	10.2 1.7 135. IT alar feb 0.689 0.312 0.712 10.90 3.6 5.8 -0.9 215. DELPIA feb 0.393 0.295 0.757 9.86 8.6	3.1 287. t(deg)= mar 0.712 0.300 0.887 6.65 21.6 8.4 -0.4 336. alat(demar 0.438 0.298 0.811 11.23 11.2	4.7 406. 42.62 yrs apr 0.604 0.230 0.835 5.66 5.1 12.4 1.2 482. g)= 39.88 apr 0.459 0.313 0.759 10.29 13.7	7.1 517. = 16. may 0.602 0.179 0.776 7.04 7.1 16.6 3.9 592. yrs= 28. may 0.437 0.275 0.760 9.27 16.0	9.7 570. elev (m)=' jun 0.476 0.126 0.890 4.85 48.5 19.9 6.8 652. elev ( jun 0.395 0.272 0.585 17.37 30.0	28.4 11.2 676. 1169.2 jul 0.212 0.044 0.819 4.39 4.8 24.7 10.0 698. (m)= 1. jul 0.372 0.246 0.664 16.89 37.8	10.9 558. 205 (mm) = aug 0.426 0.053 0.749 6.71 15.7 25.0 10.2 605. 5 tp05 (m aug 0.421 0.256 0.668 15.62 29.5	24.7 9.1 397. 30.5 tp6 sep 0.489 0.101 0.745 7.75 10.9 21.5 9.4 447. m)= 63.5 sep 0.407 0.185 0.613 18.95 21.3	18.1 6.8 235. (mm)= 127 oct 0.632 0.174 0.729 11.30 7.6 14.9 5.4 279. tp6(mm)= oct 0.381 0.171 0.577 17.22 11.2	11.6 3.3 144. .0 nov 0.719 0.276 0.694 14.66 7.1 8.4 1.8 149. 132.1 nov 0.441 0.257 0.735 11.86 13.7	8.3 1.7 80. dec 0.745 0.286 0.731 14.20 6.6 5.7 -0.5 93. dec 0.478 0.255 0.673 12.75 8.9

PENNSYLVANIA			alat(deg)=		yrs= 18.		(m) = 346.6		m)= 51.3	tp6(mm)=	97.8	
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.596	0.606	0.582	0.526	0.516	0.486	0.400	0.360	0.391	0.443	0.565	0.608
prw1(m)	0.443	0.414	0.451	0.393	0.311	0.304	0.317	0.267	0.219	0.255	0.328	0.451
alfg(m)	0.751	0.836	0.731	0.847	0.772	0.733	0.728	0.651	0.723	0.695	0.841	0.765
betg(m)	5.71	5.00	7.70	7.92	9.37	10.90	11.81	13.46	10.21	9.07	5.46	4.78
ri(m)	8.9	5.6	10.7	9.7	17.0	20.1	36.1	37.6	20.3	21.1	6.3	6.1
tamx(m)	2.5	3.1	7.8	15.6	21.9	26.6	28.5	27.7	24.2	17.6	9.7	3.4
tamn(m)	-6.0 94.	-6.3 169.	-2.6 216.	3.3 317.	8.9 429.	13.8 491.	16.1 497.	15.3 409.	11.6 339.	5.8 207.	0.0 118.	-4.9 77.
ra(m) RHODE ISLAND			alat(deg)=		yrs= 53.		(m) = 16.8		m)= 59.7	tp6(mm)=		//-
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.422	0.461	0.453	0.484	0.445	0.465	0.354	0.372	0.400	0.405	0.495	0.450
prw1(m)	0.336	0.323	0.321	0.298	0.301	0.297	0.256	0.304	0.211	0.208	0.292	0.329
alfg(m)	0.650	0.637	0.657	0.658	0.670	0.650	0.655	0.589	0.636	0.590	0.626	0.645
betg(m)	12.12	14.43	14.27	13.94	11.46	9.42	12.47	16.26	17.35	18.67	16.08	15.04
ri(m)	9.7	9.1	7.6	7.9	14.7	19.3	37.8	33.0	21.1	31.5	11.4	9.4
tamx(m)	2.7	2.7	7.2	12.7	19.1	23.9	26.7	25.8	22.2	16.7	10.5	4.1
tamn(m)	-6.3	-6.4	-1.9	2.9	8.5	13.4	16.6	15.7	11.8	6.3	1.2	-4.6
ra(m)	155.	232.	334.	405.	477.	527.	5 <b>13.</b>	455.	377.	271.	176.	139.
SOUTH CAROLI	NA - CHA	RLESTON	alat(deg	)= 32.9	0 yrs= 27		ev (m) = 12.	2 tp05	(mm) = 80.	0 tp6(mm)	= 148.6	
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.438	0.448	0.478	0.377	0.443	0.569	0.539	0.520	0.481	0.472	0.383	0.404
prw1(m)	0.244	0.268	0.265	0.194	0.205	0.259	0.381	0.310	0.231	0.134	0.171	0.222
alfg(m)	0.702	0.760	0.707	0.710	0.628	0.603	0.710	0.677	0.758	0.576	0.657	0.678
betg(m)	12.14	12.85	15.34	14.00	19.02	23.90	21.34	19.13	17.37	22.71	11.10	12.73
ri(m)	15.2	13.2	17.5	13.2	32.3	62.7	41.1	37.8	30.2	33.0	21.8	18.0
tamx(m)	16.2	16.9	20.0	24.9	28.8	31.8	31.8	31.6	29.4	25.1	19.9	16.3
tamn(m)	3.5	4.7	7.4	11.5	16.6	20.6	22.2	21.4	19.0	12.8	6.6	3.7
ra(m)	252.	314.	388.	512.	551.	564.	520.	501.	404.	338.	286.	225.
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SOUTH CAROLI		UMBIA	alat(deg)=		yrs= 22.		(m) = 64.9		m)= 72.4	tp6(mm)=		doo
SOUTH CAROLI month	jan	UMBIA feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
SOUTH CAROLI month prw2(m)	jan 0.492	UMBIA feb 0.477	mar 0.481	apr 0.449	may 0.417	jun 0.446	jul 0.515	aug 0.502	sep 0.462	oct 0.529	nov 0.392	0.416
SOUTH CAROLI month prw2(m) prw1(m)	jan 0.492 0.227	feb 0.477 0.283	mar 0.481 0.262	apr 0.449 0.227	0.417 0.206	jun 0.446 0.246	jul 0.515 0.290	aug 0.502 0.260	sep 0.462 0.162	oct 0.529 0.112	nov 0.392 0.168	0.416 0.229
SOUTH CAROLI month prw2(m) prw1(m) alfg(m)	jan 0.492 0.227 0.649	feb 0.477 0.283 0.731	mar 0.481 0.262 0.758	apr 0.449 0.227 0.674	0.417 0.206 0.758	jun 0.446 0.246 0.812	jul 0.515 0.290 0.672	aug 0.502 0.260 0.637	sep 0.462 0.162 0.559	oct 0.529 0.112 0.578	nov 0.392 0.168 0.723	0.416 0.229 0.737
SOUTH CAROLI month prw2(m) prw1(m) alfg(m) betg(m)	jan 0.492 0.227 0.649 15.54	feb 0.477 0.283 0.731 14.20	mar 0.481 0.262 0.758 15.06	apr 0.449 0.227 0.674 16.10	0.417 0.206 0.758 14.76	jun 0.446 0.246 0.812 12.06	jul 0.515 0.290 0.672 17.17	aug 0.502 0.260 0.637 21.26	sep 0.462 0.162 0.559 26.19	oct 0.529 0.112 0.578 20.93	nov 0.392 0.168 0.723 12.01	0.416 0.229 0.737 12.88
SOUTH CAROLI month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	jan 0.492 0.227 0.649 15.54 13.2	feb 0.477 0.283 0.731 14.20 19.8	mar 0.481 0.262 0.758 15.06 30.5	apr 0.449 0.227 0.674 16.10 27.4	may 0.417 0.206 0.758 14.76 40.1	jun 0.446 0.246 0.812 12.06 45.7	jul 0.515 0.290 0.672 17.17 38.1	aug 0.502 0.260 0.637 21.26 45.0	sep 0.462 0.162 0.559 26.19 49.0	oct 0.529 0.112 0.578 20.93 20.8	nov 0.392 0.168 0.723 12.01 17.5	0.416 0.229 0.737 12.88 8.9
SOUTH CAROLI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	jan 0.492 0.227 0.649 15.54 13.2 14.6	feb 0.477 0.283 0.731 14.20 19.8 15.8	mar 0.481 0.262 0.758 15.06	apr 0.449 0.227 0.674 16.10	0.417 0.206 0.758 14.76	jun 0.446 0.246 0.812 12.06	jul 0.515 0.290 0.672 17.17	aug 0.502 0.260 0.637 21.26	sep 0.462 0.162 0.559 26.19	oct 0.529 0.112 0.578 20.93	nov 0.392 0.168 0.723 12.01	0.416 0.229 0.737 12.88
SOUTH CAROLI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m)	jan 0.492 0.227 0.649 15.54 13.2	feb 0.477 0.283 0.731 14.20 19.8	mar 0.481 0.262 0.758 15.06 30.5 19.2	apr 0.449 0.227 0.674 16.10 27.4 24.6 10.3	may 0.417 0.206 0.758 14.76 40.1 29.3	jun 0.446 0.246 0.812 12.06 45.7 33.1	jul 0.515 0.290 0.672 17.17 38.1 33.6	aug 0.502 0.260 0.637 21.26 45.0 32.9	sep 0.462 0.162 0.559 26.19 49.0 30.1	oct 0.529 0.112 0.578 20.93 20.8 25.2	nov 0.392 0.168 0.723 12.01 17.5 19.3	0.416 0.229 0.737 12.88 8.9 14.6
SOUTH CAROLI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247.	feb 0.477 0.283 0.731 14.20 19.8 15.8 2.4 309.	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7	apr 0.449 0.227 0.674 16.10 27.4 24.6 10.3 507.	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546.	jun 0.446 0.246 0.812 12.06 45.7 33.1 19.9 559.	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399.	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281.	0.416 0.229 0.737 12.88 8.9 14.6
SOUTH CAROLI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m)	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247.	feb 0.477 0.283 0.731 14.20 19.8 15.8 2.4 309.	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383.	apr 0.449 0.227 0.674 16.10 27.4 24.6 10.3 507.	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546.	jun 0.446 0.246 0.812 12.06 45.7 33.1 19.9 559.	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515.	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399.	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333.	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281.	0.416 0.229 0.737 12.88 8.9 14.6
SOUTH CAROLI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) SOUTH DAKOTA	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247.	feb 0.477 0.283 0.731 14.20 19.8 15.8 2.4 309. alat	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383. (deg)= 44.3	apr 0.449 0.227 0.674 16.10 27.4 24.6 10.3 507. 8 yrs= apr 0.457	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546. 18. etc. may 0.485	jun 0.446 0.246 0.812 12.06 45.7 33.1 19.9 559. ev (m)= jun 0.465	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515. 390.8 tp05 jul 0.358	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9 496. (mm)= 6 aug 0.360	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399.	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333. mm)= 106.7	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281.	0.416 0.229 0.737 12.88 8.9 14.6 1.4 220. dec 0.331
SOUTH CAROLI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) SOUTH DAKOTA	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247. - HURON jan	feb 0.477 0.283 0.731 14.20 19.8 15.8 2.4 309. alat feb	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383. (deg)= 44.3 mar	apr 0.449 0.227 0.674 16.10 27.4 24.6 10.3 507. 8 yrs= apr 0.457 0.252	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546.	jun 0.446 0.246 0.812 12.06 45.7 33.1 19.9 559. ev (m)= jun	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515. 390.8 tp05 jul	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9 496. (mm)= 6	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399. 3.0 tp6( sep	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333. mm)= 106.7 oct	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281.	0.416 0.229 0.737 12.88 8.9 14.6 1.4 220. dec 0.331 0.169
SOUTH CAROLI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) SOUTH DAKOTA month prw2(m)	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247. - HURON jan 0.333	feb 0.477 0.283 0.731 14.20 19.8 15.8 2.4 309. alat feb 0.445	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383. (deg)= 44.3 mar 0.379 0.189 0.712	apr 0.449 0.227 0.674 16.10 27.4 24.6 10.3 507. 8 yrs= apr 0.457	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546. 18. etc. may 0.485	jun 0.446 0.246 0.812 12.06 45.7 33.1 19.9 599. ev (m)= jun 0.465 0.324 0.652	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515. 390.8 tp05 jul 0.358	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9 496. (mm) = 6 aug 0.360 0.254 0.615	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399. 3.0 tp6( sep 0.368 0.176 0.705	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333. mm)= 106.7 oct 0.433	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281.	0.416 0.229 0.737 12.88 8.9 14.6 1.4 220. dec 0.331 0.169 0.761
SOUTH CAROLI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) SOUTH DAKOTA month prw2(m) prw1(m)	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247. - HURON jan 0.333 0.171	feb 0.477 0.283 0.731 14.20 19.8 15.8 2.4 309. alat feb 0.445 0.167	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383. (deg)= 44.3 mar 0.379 0.189	apr 0.449 0.227 0.674 16.10 27.4 24.6 10.3 507. 8 yrs= apr 0.457 0.252	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546. 18. etc may 0.485 0.263	jun 0.446 0.246 0.812 12.06 45.7 33.1 19.9 ev (m)= jun 0.465 0.324	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515. 390.8 tp05 jul 0.358 0.261	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9 496. (mm) = 6 aug 0.360 0.254	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399. 3.0 tp6( sep 0.368 0.176	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333. mm)= 106.7 oct 0.433 0.114	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281.	0.416 0.229 0.737 12.88 8.9 14.6 1.4 220. dec 0.331 0.169
SOUTH CAROLI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) SOUTH DAKOTA month prw2(m) prw1(m) alfg(m)	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247. - HURON jan 0.333 0.171 0.998	feb 0.477 0.283 0.731 14.20 19.8 15.8 2.4 309. alat feb 0.445 0.167 0.707	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383. (deg) = 44.3 mar 0.379 0.189 0.712 4.70 4.6	apr 0.449 0.227 0.674 16.10 27.4 24.6 10.3 507. 8 yrs= apr 0.457 0.252 0.682 7.62 13.5	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546. 18. ela may 0.485 0.263 0.616 10.82 12.2	jun 0.446 0.246 0.812 12.06 45.7 33.1 19.9 559. ev (m)= jun 0.465 0.324 0.652 13.06	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515. 390.8 tp05 jul 0.358 0.261 0.664 9.86 18.8	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9 496. (mm)= 6 aug 0.360 0.254 0.615 9.93 16.5	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399. 3.0 tp6( sep 0.368 0.176 0.705 8.18 16.3	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333. mm)= 106.7 oct 0.433 0.114 0.611 10.64 16.5	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281. nov 0.368 0.134 0.699	0.416 0.229 0.737 12.88 8.9 14.6 1.4 220. dec 0.331 0.169 0.761 3.23 1.0
SOUTH CAROLI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) SOUTH DAKOTA month prw2(m) prw1(m) alfg(m) betg(m)	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247. HURON jan 0.333 0.171 0.998 1.40 1.5	feb 0.477 0.283 0.731 14.20 19.8 15.8 2.4 309. alat feb 0.445 0.167 0.707 4.60 4.3 -2.0	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383. (deg) = 44.3 mar 0.379 0.189 0.712 4.70 4.6 6.2	apr 0.449 0.227 0.674 16.10 27.4 24.6 10.3 507. 8 yrs= apr 0.457 0.252 0.682 7.62 13.5 15.3	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546. 18. may 0.485 0.263 0.616 10.82 12.2 22.0	jun 0.446 0.246 0.812 12.06 45.7 33.1 19.9 559. ev (m)= jun 0.465 0.324 0.652 13.06 11.9 27.2	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515. 390.8 tp05 jul 0.358 0.261 0.664 9.86 18.8 31.9	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9 496. (mm) = 6: aug 0.360 0.254 0.615 9.93 16.5 30.6	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399. 3.0 tp6( sep 0.368 0.176 0.705 8.18 16.3 25.1	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333. mm)= 106.7 oct 0.433 0.114 0.611 10.64 16.5 17.8	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281. nov 0.368 0.134 0.699 4.44 5.6 6.6	0.416 0.229 0.737 12.88 8.9 14.6 1.4 220. dec 0.331 0.169 0.761 3.23 1.0 -1.0
SOUTH CAROLI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) SOUTH DAKOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247. - HURON jan 0.333 0.171 0.998 1.40 1.5 -4.0	feb 0.477 0.283 0.731 14.20 19.8 15.8 2.4 309. alat feb 0.445 0.167 0.707 4.60 4.3 -2.0 -14.1	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383. (deg) = 44.3 mar 0.379 0.189 0.712 4.70 4.6 6.2 -6.5	apr 0.449 0.227 0.674 16.10 27.4 24.6 10.3 507. 8 yrs= apr 0.457 0.252 7.62 13.5 15.3 0.7	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546. 18. may 0.485 0.263 0.616 10.82 12.2 22.0 6.9	jun 0.446 0.246 0.812 12.06 45.7 33.1 19.9 559. ev (m)= jun 0.465 0.324 0.652 13.06 11.9 27.2	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515. 390.8 tp05 jul 0.358 0.261 0.664 9.86 18.8 31.9 16.3	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9 496. (mm)= 6. aug 0.360 0.254 0.615 9.93 16.5 30.6 14.8	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399. 3.0 tp6( sep 0.368 0.176 0.705 8.18 16.3 25.1 9.1	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333. mm)= 106.7 oct 0.433 0.114 0.611 10.64 16.5 17.8 2.1	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281. nov 0.368 0.134 0.699 4.44 5.6 6.6 -6.1	0.416 0.229 0.737 12.88 8.9 14.6 1.4 220. dec 0.331 0.169 0.761 3.23 1.0 -1.0
SOUTH CAROLI  month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) south DAKOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m)	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247. - HURON jan 0.333 0.171 0.998 1.40 1.5 -4.0 -16.6 173.	feb 0.477 0.283 0.731 14.20 19.8 15.8 2.4 309. alat feb 0.445 0.167 0.707 4.60 4.3 -2.0 -14.1 267.	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383. (deg)= 44.3 mar 0.379 0.189 0.712 4.70 4.6 6.2 -6.5 390.	apr 0.449 0.227 0.674 16.10 27.46 10.3 507. 8 yrs= apr 0.457 0.252 0.682 7.62 13.5 15.3 0.7 472.	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546. 18. etc may 0.485 0.263 0.616 10.82 12.2 22.0 6.9 522.	jun 0.446 0.246 0.812 12.06 45.7 33.1 19.9 559. ev (m)= jun 0.465 0.324 0.652 13.06 11.9 27.2	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515. 390.8 tp05 jul 0.358 0.261 0.664 9.86 18.8 31.9 16.3 580.	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9 496. (mm)= 6. aug 0.360 0.254 0.615 9.93 16.5 30.6 14.8 531.	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399. 3.0 tp6( sep 0.368 0.176 0.705 8.18 16.3 25.1 9.1	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333. mm)= 106.7 oct 0.433 0.114 0.611 10.64 16.5 17.8 2.1 305.	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281. nov 0.368 0.134 0.699 4.44 5.6 6.6 -6.1 194.	0.416 0.229 0.737 12.88 8.9 14.6 1.4 220. dec 0.331 0.169 0.761 3.23 1.0 -1.0
SOUTH CAROLI  month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) south DAKOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) south DAKOTA South DAKOTA south DAKOTA south DAKOTA south DAKOTA	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247. - HURON jan 0.333 0.171 0.998 1.40 1.5 -4.0 -16.6 173. - RAPID	Teb 0.477 0.283 0.731 14.20 19.8 15.8 2.4 309. alat feb 0.445 0.167 0.707 4.60 4.3 -2.0 -14.1 267.	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383. (deg) = 44.3 mar 0.379 0.189 0.712 4.70 4.6 6.2 -6.5 390. alat(deg) =	apr 0.449 0.227 0.674 16.10 27.4 24.6 10.3 507. 8 yrs= apr 0.457 0.252 0.682 7.62 13.5 15.3 0.7 472. 44.05	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546. 18. etc may 0.485 0.263 0.616 10.82 12.2 22.0 6.9 522. yrs= 15.	jun 0.446 0.246 0.812 12.06 45.7 33.7 19.9 559. ev (m)= jun 0.465 0.324 0.652 13.06 11.9 27.2 13.0 575. elev	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515. 390.8 tp05 jul 0.358 0.261 0.664 9.86 18.8 31.9 16.3 580. (m)= 964.7	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9 496. (mm)= 6. aug 0.360 0.254 0.615 9.93 16.5 30.6 14.8 531. tp05(mi	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399. 3.0 tp6( sep 0.368 0.176 0.705 8.18 16.3 25.1 9.1 425. n)= 53.3	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333. mm)= 106.7 oct 0.433 0.114 0.611 10.64 16.5 17.8 2.1 305. tp6(mm)=	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281. nov 0.368 0.134 0.699 4.44 5.6 6.6 -6.1 194.	0.416 0.229 0.737 12.88 8.9 14.6 1.4 220. dec 0.331 0.169 0.761 3.23 1.0 -1.0 -12.8 148.
SOUTH CAROLI  month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) SOUTH DAKOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) south DAKOTA month	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247. - HURON jan 0.333 0.171 0.998 1.40 1.5 -4.0 -16.6 173. - RAPID	## COLOR   COLOR    ## COLOR	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383. (deg) = 44.3 mar 0.379 0.189 0.712 4.70 4.6 6.2 -6.5 390. alat(deg) =	apr 0.449 0.227 0.674 16.10 27.4 24.6 10.3 507. 8 yrs= apr 0.457 0.252 0.682 7.62 13.5 15.3 0.7 472. 44.05 apr	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546. 18. etc may 0.485 0.263 0.616 10.82 12.2 22.0 6.9 522. yrs= 15.	jun 0.446 0.246 0.812 12.06 45.7 33.7 19.9 559. ev (m)= jun 0.465 0.324 0.652 13.06 11.9 27.2 13.0 575. elev jun	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515. 390.8 tp05 jul 0.358 0.261 0.664 9.86 18.8 31.9 16.3 580. (m)= 964.7 jul	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9 496. (mm) = 6. aug 0.360 0.254 0.615 9.93 16.5 30.6 14.8 531. tp05(maug	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399. 3.0 tp6( sep 0.368 0.176 0.705 8.18 16.3 25.1 9.1 425. m)= 53.3 sep	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333. mm)= 106.7 oct 0.433 0.114 0.611 10.64 16.5 17.8 2.1 305. tp6(mm)=	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281. nov 0.368 0.134 0.699 4.44 5.6 6.6 6.6 -6.1 194. 90.2 nov	0.416 0.229 0.737 12.88 8.9 14.6 1.4 220. dec 0.331 0.169 0.761 3.23 1.0 -12.8 148.
SOUTH CAROLI  month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) SOUTH DAKOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) tamx(m) south DAKOTA month prw2(m)	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247. - HURON jan 0.333 0.171 0.998 1.40 1.5 -4.0 -16.6 173. - RAPID jan 0.370	UMBIA feb 0.477 0.283 0.731 14.20 19.8 15.8 2.4 309. alat feb 0.445 0.167 0.707 4.60 4.3 -2.0 -14.1 267. CITY feb 0.503	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383. (deg) = 44.3 mar 0.379 0.189 0.712 4.70 4.6 6.2 -6.5 390. alat(deg) = mar 0.444	apr 0.449 0.227 0.674 16.10 27.4 24.6 10.3 507. 8 yrs= apr 0.457 0.252 0.682 7.62 13.5 15.3 0.7 47.2 44.05 apr 0.518	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546. 18. etc. may 0.485 0.263 0.616 10.82 12.2 22.0 6.9 522. yrs= 15. may 0.519	jun 0.446 0.246 0.812 12.06 45.7 33.1 19.9 559. ev (m)= jun 0.465 0.324 0.652 13.06 11.9 27.2 13.0 575. elev jun 0.557	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515. 390.8 tp05 jul 0.358 0.261 0.664 9.86 18.8 31.9 16.3 580. (m)= 964.7 jul 0.394	aug 0.502 0.260 0.637 21.26 45.0 32.9 496. (mm) = 6. aug 0.360 0.254 0.615 9.93 16.5 30.6 14.8 531. tp05(maug 0.338	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399. 3.0 tp6( sep 0.368 0.176 0.705 8.18 16.3 25.1 9.1 425. n)= 53.3 sep 0.362	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333. mm)= 106.7 oct 0.433 0.114 0.611 10.64 16.5 17.8 2.1 305. tp6(mm)= oct 0.360	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281. nov 0.368 0.134 0.699 4.44 5.6 6.6 6.6 6.6 1194. 90.2 nov 0.382	0.416 0.229 0.737 12.88 8.9 14.6 1.4 220. dec 0.331 0.169 0.761 3.23 1.0 -1.0 -12.8 148. dec 0.411
SOUTH CAROLI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) SOUTH DAKOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) SOUTH DAKOTA month prw2(m) prw1(m)	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247. - HURON jan 0.333 0.171 0.998 1.40 1.5 -4.0 -16.6 173. - RAPID jan 0.370 0.156	## Company	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383. (deg)= 44.3 mar 0.379 0.189 0.712 4.70 4.6 6.2 -6.5 390. alat(deg)= mar 0.444 0.222	apr 0.449 0.227 0.674 16.10 27.4 24.6 10.3 507. 8 yrs= apr 0.457 0.252 0.682 7.62 13.5 15.3 0.7 472. 44.05 apr 0.518 0.233	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546. 18. ela may 0.485 0.263 0.616 10.82 12.2 22.0 6.9 522. yrs= 15. may 0.519 0.306	jun 0.446 0.246 0.812 12.06 45.7 33.1 19.9 559. ev (m)= jun 0.465 0.324 0.652 13.06 11.9 27.2 13.0 575. elev jun 0.557	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515. 390.8 tp05 jul 0.358 0.261 0.664 9.86 18.8 31.9 16.3 580. (m)= 964.7 jul 0.394 0.239	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9 496. (mm)= 6 aug 0.360 0.254 0.615 9.93 16.5 30.6 14.8 531. tp05(maug) 0.338 0.208	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399. 3.0 tp6( sep 0.368 0.176 0.705 8.18 16.3 25.1 9.1 425. n)= 53.3 sep 0.362 0.167	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333. mm)= 106.7 oct 0.433 0.114 0.611 10.64 16.5 17.8 2.1 305. tp6(mm)= oct 0.360 0.103	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281. nov 0.368 0.134 0.699 4.44 5.6 6.6 -6.1 194. 90.2 nov 0.382 0.157	0.416 0.229 0.737 12.88 8.9 14.6 1.4 220. dec 0.331 0.169 0.761 3.23 1.0 -1.0 -12.8 148. dec 0.411
SOUTH CAROLI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) SOUTH DAKOTA month prw2(m) prw1(m) alfg(m) tamx(m) tamx(m) tamx(m) south Dakota month prw2(m) prw1(m) alfg(m) south Dakota	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247. - HURON jan 0.333 0.171 0.998 1.40 -16.6 173. - RAPID jan 0.370 0.156 0.998	### Compage   ### Compage   ### Compage  ###	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383. (deg) = 44.3 mar 0.379 0.189 0.712 4.70 4.6 6.2 -6.5 390. alat(deg) = mar 0.444 0.222 0.815	apr 0.449 0.227 0.674 16.10 27.4 24.6 10.3 507. 8 yrs= apr 0.457 0.252 0.682 7.62 13.5 15.3 0.7 472. 44.05 49.05 15.3 0.7	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546. 18. eld may 0.485 0.263 0.616 10.82 12.2 22.0 6.9 522. yrs= 15. may 0.519 0.306 0.674	jun 0.446 0.246 0.812 12.06 45.7 33.1 19.9 559. ev (m)= jun 0.465 0.3244 0.652 13.06 11.9 27.2 13.0 575. elev jun 0.557 0.317	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515. 390.8 tp05 jul 0.358 0.261 0.664 9.86 18.8 31.9 16.3 580. (m)= 964.7 jul 0.394 0.239 0.622	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9 496. (mn) = 6 aug 0.360 0.254 0.615 9.93 16.5 30.6 14.8 531. tp05(maug 0.338 0.208 0.757	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399. 3.0 tp6( sep 0.368 0.176 0.705 8.18 16.3 25.1 9.1 425. m)= 53.3 sep 0.362 0.167 0.709	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333. mm)= 106.7 oct 0.433 0.114 0.611 10.64 16.5 17.8 2.1 305. tp6(mm)= oct 0.360 0.103 0.782	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281. nov 0.368 0.134 0.699 4.44 5.6 6.6 -6.1 194. 90.2 nov 0.382 0.157 0.830	0.416 0.229 0.737 12.88 8.9 14.6 1.4 220. dec 0.331 0.169 0.761 3.23 1.0 -1.0 -12.8 148. dec 0.411 0.155 0.998
SOUTH CAROLI  month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) SOUTH DAKOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) SOUTH DAKOTA month prw2(m) prw1(m) alfg(m) betg(m) prw1(m) alfg(m) betg(m)	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247 HURON jan 0.333 0.171 0.998 1.40 1.5 -4.0 -16.6 173 RAPID jan 0.370 0.156 0.998 1.63	### Company	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383. (deg) = 44.3 mar 0.379 0.189 0.712 4.70 4.6 6.2 -6.5 390. alat(deg) = mar 0.444 0.222 0.815 3.30	apr 0.449 0.227 0.674 16.10 27.4 24.6 10.3 507. 8 apr 0.457 0.252 7.62 13.5 15.3 0.7 472. 44.05 apr 0.518 0.233 0.776 6.68	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546. 18. eld may 0.485 0.263 0.616 10.82 12.2 22.0 6.9 522. yrs= 15. may 0.519 0.306 0.674 8.79	jun 0.446 0.246 0.812 12.06 45.7 33.1 19.9 559. ev (m)= jun 0.465 0.324 0.652 13.06 11.9 27.2 13.0 575. elev jun 0.557 0.317 0.713 9.60	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515. 390.8 tp05 jul 0.358 0.261 0.664 9.86 18.8 31.9 16.3 580. (m)= 964.7 jul 0.394 0.239 0.622 9.91	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9 496. (mm) = 6. aug 0.360 0.254 0.615 9.93 16.5 30.6 14.8 531. tp05(m aug 0.388 0.388 0.208 0.757 6.38	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399. 3.0 tp6( sep 0.368 0.176 0.705 8.18 16.3 25.1 9.1 425. m)= 53.3 sep 0.362 0.167 0.709 6.35	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333. mm)= 106.7 oct 0.433 0.114 0.611 10.64 16.5 17.8 2.1 305. tp6(mm)= oct 0.360 0.103 0.782 5.11	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281. nov 0.368 0.134 0.699 4.44 5.6 6.6 -6.1 194. 90.2 nov 0.382 0.157 0.830 2.49	0.416 0.229 0.737 12.88 8.9 14.6 1.4 220. dec 0.331 0.169 0.761 3.23 1.0 -1.0 -12.8 148. dec 0.411 0.155 0.998 1.78
SOUTH CAROLI  month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) SOUTH DAKOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) SOUTH DAKOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) south DAKOTA month prw2(m) prw1(m) alfg(m) prw1(m) alfg(m) betg(m) ri(m)	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247 HURON jan 0.333 0.171 0.998 1.40 1.5 -4.0 -16.6 173 RAPID jan 0.370 0.156 0.998 1.63 1.3	### Company	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383. (deg)= 44.3 mar 0.379 0.189 0.712 4.70 4.6 6.2 -6.5 390. alat(deg)= mar 0.444 0.222 0.815 3.30 3.8	apr 0.449 0.227 16.10 27.4 24.6 10.3 507. 8 yrs= apr 0.457 0.252 7.62 13.5 15.3 0.7 472. 44.05 apr 0.533 0.776 6.68 6.3	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546. 18. etc may 0.485 0.263 0.616 10.82 12.2 22.0 6.9 522. yrs= 15. may 0.519 0.306 0.674 8.79 8.9	jun 0.446 0.246 0.812 12.06 45.7 33.1 19.9 559. ev (m)= jun 0.465 0.324 0.652 13.06 575. elev jun 0.557 0.313 9.60 22.9	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515. 390.8 tp05 jul 0.358 0.261 0.664 9.86 18.8 31.9 16.3 580. (m)= 964.7 jul 0.394 0.239 0.622 9.91 30.2	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9 496. (mm) = 6. aug 0.360 0.254 0.615 9.93 16.5 30.6 14.8 531. tp05(m aug 0.388 0.208 0.757 6.38 26.2	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399. 3.0 tp6( sep 0.368 0.176 0.705 8.18 16.3 25.1 9.1 425. 70.362 0.362 0.362 0.362 0.362	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333. mm)= 106.7 oct 0.433 0.114 0.611 10.64 16.5 17.8 2.1 305. tp6(mm)= oct 0.360 0.103 0.782 5.11 20.3	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281. nov 0.368 0.134 0.699 4.44 5.6 6.6 -6.1 194. 90.2 nov 0.382 0.157 0.830 2.49 1.8	0.416 0.229 0.737 12.88 8.9 14.6 1.4 220. dec 0.331 0.169 0.761 3.23 1.0 -1.0 -12.8 148. dec 0.411 0.155 0.998 1.78
SOUTH CAROLI  month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) south DAKOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) SOUTH DAKOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) south DAKOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247. - HURON jan 0.333 0.171 0.998 1.40 1.5 -4.0 -16.6 173. - RAPID jan 0.370 0.156 0.998 1.63 1.3 0.6	### DEST   Feb	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383. (deg) = 44.3 mar 0.379 0.189 0.712 4.70 4.6 6.2 -6.5 390. alat(deg) = mar 0.444 0.222 0.815 3.30 3.8 5.8	apr 0.449 0.227 0.674 16.10 27.4 24.6 10.3 507. 8 yrs= apr 0.457 0.252 0.682 7.62 13.5 15.3 0.7 472. 44.05 apr 0.518 0.233 0.776 6.68 6.3 13.7	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546. 18. el. may 0.485 0.263 0.616 10.82 12.2 22.0 6.9 522. yrs= 15. may 0.519 0.306 0.674 8.79 8.9 19.2	jun 0.446 0.246 0.812 12.06 45.7 33.1 19.9 559. ev (m)= jun 0.465 0.324 0.652 13.06 575. elev jun 0.557 0.317 0.713 9.60 22.9 24.2	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515. 390.8 tp05 jul 0.358 0.261 0.664 9.86 18.8 31.9 16.3 580. (m)= 964.7 jul 0.394 0.239 0.622 9.91 30.2 29.9	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9 496. (mm)= 6. aug 0.360 0.254 0.615 9.93 16.5 30.6 14.8 531. tp05(m aug 0.338 0.338 0.757 6.38 26.2 29.2	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399. 3.0 tp6( sep 0.368 0.176 0.705 8.18 16.3 25.1 9.1 425. 3.0 sep 0.362 0.167 0.709 6.35 6.1 23.4	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333. mm)= 106.7 oct 0.433 0.114 0.611 10.64 16.5 17.8 2.1 305. tp6(mm)= oct 0.360 0.103 0.782 5.11 20.3 16.6	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281. nov 0.368 0.134 0.699 4.44 5.6 6.6 -6.1 194. 90.2 nov 0.382 0.1357 0.830 2.49 1.8 8.2	0.416 0.229 0.737 12.88 8.9 14.6 1.4 220. dec 0.331 0.169 0.761 3.23 1.0 -1.0 -12.8 148. dec 0.411 0.155 0.998 1.78 1.5 2.9
SOUTH CAROLI  month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) SOUTH DAKOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) SOUTH DAKOTA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) south DAKOTA month prw2(m) prw1(m) alfg(m) prw1(m) alfg(m) betg(m) ri(m)	jan 0.492 0.227 0.649 15.54 13.2 14.6 2.0 247 HURON jan 0.333 0.171 0.998 1.40 1.5 -4.0 -16.6 173 RAPID jan 0.370 0.156 0.998 1.63 1.3	### Company	mar 0.481 0.262 0.758 15.06 30.5 19.2 5.7 383. (deg)= 44.3 mar 0.379 0.189 0.712 4.70 4.6 6.2 -6.5 390. alat(deg)= mar 0.444 0.222 0.815 3.30 3.8	apr 0.449 0.227 16.10 27.4 24.6 10.3 507. 8 yrs= apr 0.457 0.252 7.62 13.5 15.3 0.7 472. 44.05 apr 0.533 0.776 6.68 6.3	may 0.417 0.206 0.758 14.76 40.1 29.3 15.3 546. 18. etc may 0.485 0.263 0.616 10.82 12.2 22.0 6.9 522. yrs= 15. may 0.519 0.306 0.674 8.79 8.9	jun 0.446 0.246 0.812 12.06 45.7 33.1 19.9 559. ev (m)= jun 0.465 0.324 0.652 13.06 575. elev jun 0.557 0.313 9.60 22.9	jul 0.515 0.290 0.672 17.17 38.1 33.6 21.5 515. 390.8 tp05 jul 0.358 0.261 0.664 9.86 18.8 31.9 16.3 580. (m)= 964.7 jul 0.394 0.239 0.622 9.91 30.2	aug 0.502 0.260 0.637 21.26 45.0 32.9 20.9 496. (mm) = 6. aug 0.360 0.254 0.615 9.93 16.5 30.6 14.8 531. tp05(m aug 0.388 0.208 0.757 6.38 26.2	sep 0.462 0.162 0.559 26.19 49.0 30.1 18.1 399. 3.0 tp6( sep 0.368 0.176 0.705 8.18 16.3 25.1 9.1 425. 70.362 0.362 0.362 0.362 0.362	oct 0.529 0.112 0.578 20.93 20.8 25.2 11.1 333. mm)= 106.7 oct 0.433 0.114 0.611 10.64 16.5 17.8 2.1 305. tp6(mm)= oct 0.360 0.103 0.782 5.11 20.3	nov 0.392 0.168 0.723 12.01 17.5 19.3 4.8 281. nov 0.368 0.134 0.699 4.44 5.6 6.6 -6.1 194. 90.2 nov 0.382 0.157 0.830 2.49 1.8	0.416 0.229 0.737 12.88 8.9 14.6 1.4 220. dec 0.331 0.169 0.761 3.23 1.0 -1.0 -12.8 148. dec 0.411 0.155 0.998 1.78

dec 608 451 765 .78 6.1 3.4 4.9 77.

dec 450 329 645 .04 9.4 4.1 4.6 39.

dec 404 222 678 .73 8.0 6.3 3.7

dec .416 .229 .737 2.88

8.9 14.6 1.4 220.

dec 331 169

761 1.23 1.0 1.0 1.0 2.8

dec 411 155 998 1.78 1.5 2.9 9.9 58.

	CHATTONO	nga al	at(dea)=	35.03 y	rs= 79	elev (m	)= 204.2	troff(mm)	= 64 N +	p6(mm)= 13	3 n 8	
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.513	0.517	0.489	0.493	0.473	0.465	0.541	0.457	0.443	0.489	0.453	0.453
prw1(m)	0.268	0.295	0.289	0.270	0.228	0.264	0.263	0.240	0.201	0.154	0.217	0.263
alfg(m)	0.727	0.769	0.671	0.719	0.794	0.721	0.801	0.679	0.632	0.738	0.784	0.718
betg(m)	15.82	15.54	18.42	16.13	11.61	11.79	12.22	12.75	18.59	13.18	14.53	18.62
ri(m)	15.7	13.0	20.1	30.2	33.3	33.8	52.1	28.2	29.5	13.7	14.0	14.5
tamx(m)	10.9	12.6	16.8	22.1	26.6	30.9	32.0	31.5	29.2	23.3	16.0	11.2
tamn(m)	-0.2	0.7	3.9	8.6	13.1	17.8	19.4	18.8	15.7	8.7	3.0	-0.1
ra(m)	166.	244.	336.	455.	523.	556.	531.	483.	421.	323.	218.	168.
	KNOXVILL		t(deg)=3	5.82 yrs	= 87.	elev (m)=		p05(mn) =		(mm) = 125	.7	
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.506	0.531	0.506	0.528	0.473	0.444	0.494	0.422	0.477	0.503	0.467	0.466
prw1(m)	0.317	0.329	0.327	0.294	0.253	0.291	0.304	0.257	0.191	0.170	0.271	0.289
alfg(m)	0.747	0.774	0.737	0.759	0.916	0.720	0.778	0.681	0.732	0.729	0.731	0.664
betg(m)	12.42	13.13	13.97	11.23	8.53	13.41	11.48	12.52	12.14	11.15	12.45	16.36
ri(m)	7.1	10.7	15.7	24.1	31.2	28.4	32.0	19.8	18.3	13.2 22.5	12.7	15.7
tamx(m)	9.9	11.4	15.8	21.6	26.1	30.6	31.7	31.0	28.6		15.1	10.2
tamn(m)	-0.5 161.	0.2 2 <b>39.</b>	3.5 331.	8.4 450.	13.2 518.	18.1 551.	19.8 526.	18.9 478.	15.9 416.	8.9 318.	3.1 213.	-0.2 163.
ra(m) TENNESSEE -			deg)= 35.				80.2 tp0			m)= 146.1	213.	105.
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.472	0.455	0.491	0.431	0.482	0.469	0.395	0.397	0.424	0.324	0.374	0.439
prw1(m)	0.246	0.294	0.270	0.295	0.184	0.200	0.241	0.205	0.154	0.146	0.222	0.259
alfg(m)	0.645	0.753	0.755	0.729	0.717	0.755	0.698	0.620	0.658	0.657	0.715	0.686
betg(m)	18.11	15.72	15.37	19.91	20.47	13.59	16.56	19.38	19.74	15.11	15.34	17.37
ri(m)	17.0	18.0	30.2	30.5	38.1	29.5	54.6	41.4	27.9	16.3	35.3	32.8
tamx(m)	10.2	11.8	16.7	22.2	26.9	31.3	32.8	32.6	29.6	24.2	16.3	11.4
tamn(m)	0.5	2.1	5.6	10.8	15.4	20.1	21.8	21.0	17.3	10.8	4.3	1.1
ra(m)	157.	236.	<b>33</b> 0.	440.	511.	559.	538.	481.	411.	316.	216.	158.
TENNESEE -	NASHVILLE	alat	(deg)=36	.12 yrs=	87. e	lev (m)=	175.9 tp	05(mm)= 6	1.5 tp6(	mm)= 124.	5	
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
pr⊮2(m)	0.484	0.521	0.500	0.476	0.485	0.516	0.422	0.386	0.462	0.408	0.399	0.493
prw1(m)	0.274	0.299	0.280	0.323	0.248	0.238	0.272	0.214	0.174	0.161	0.249	0.280
alfg(m)	0 455		0.705	0.763	0.743	0.718		0.751	0.647	0.738		0.721
	0.655	0.835					0.705		47 05		0.805	44 47
betg(m)	15.65	12.40	16.56	<b>13.0</b> 0	14.05	13.54	13.31	12.42	17.25	11.58	11.13	14.43
ri(m)	15.65 15.7	12.40 16.3	16.56 21.1	13.00 18.8	14.05 47.2	13.54 24.9	13.31 48.3	12.42 42.7	27.9	11.58 20.3	11.13 22.1	16.3
ri(m) tamx(m)	15.65 15.7 9.4	12.40 16.3 10.9	16.56 21.1 15.6	13.00 18.8 21.4	14.05 47.2 26.2	13.54 24.9 30.9	13.31 48.3 32.6	12.42 42.7 31.9	27.9 29.2	11.58 20.3 23.2	11.13 22.1 15.1	16.3 10.1
ri(m) tamx(m) tamn(m)	15.65 15.7 9.4 -0.6	12.40 16.3 10.9 0.6	16.56 21.1 15.6 4.2	13.00 18.8 21.4 9.3	14.05 47.2 26.2 14.0	13.54 24.9 30.9 18.9	13.31 48.3 32.6 20.7	12.42 42.7 31.9 20.0	27.9 29.2 16.6	11.58 20.3 23.2 9.9	11.13 22.1 15.1 4.1	16.3 10.1 0.3
ri(m) tamx(m) tamn(m) ra(m)	15.65 15.7 9.4 -0.6 149.	12.40 16.3 10.9 0.6 228.	16.56 21.1 15.6 4.2 322.	13.00 18.8 21.4 9.3 432.	14.05 47.2 26.2 14.0 503.	13.54 24.9 30.9 18.9 551.	13.31 48.3 32.6 20.7 530.	12.42 42.7 31.9 20.0 473.	27.9 29.2 16.6 403.	11.58 20.3 23.2 9.9 308.	11.13 22.1 15.1	16.3 10.1
ri(m) tamx(m) tamn(m) ra(m) TEXAS - AMA	15.65 15.7 9.4 -0.6 149.	12.40 16.3 10.9 0.6 228. alat(deg)	16.56 21.1 15.6 4.2 322. 323	13.00 18.8 21.4 9.3 432. yrs= 28.	14.05 47.2 26.2 14.0 503. elev	13.54 24.9 30.9 18.9 551. (m)=1098.	13.31 48.3 32.6 20.7 530. 5 tp05(m	12.42 42.7 31.9 20.0 473. m)= 65.8	27.9 29.2 16.6 403. tp6(mm)=	11.58 20.3 23.2 9.9 308. 121.9	11.13 22.1 15.1 4.1 208.	16.3 10.1 0.3 150.
ri(m) tamx(m) tamn(m) ra(m) TEXAS - AMA month	15.65 15.7 9.4 -0.6 149. RILLO jan	12.40 16.3 10.9 0.6 228. alat(deg) feb	16.56 21.1 15.6 4.2 322. 0= 35.23 mar	13.00 18.8 21.4 9.3 432. yrs= 28. apr	14.05 47.2 26.2 14.0 503. elev may	13.54 24.9 30.9 18.9 551. (m)=1098.	13.31 48.3 32.6 20.7 530. 5 tp05(m	12.42 42.7 31.9 20.0 473. m)= 65.8 aug	27.9 29.2 16.6 403. tp6(mm)= sep	11.58 20.3 23.2 9.9 308. 121.9 oct	11.13 22.1 15.1 4.1 208.	16.3 10.1 0.3 150.
ri(m) tamx(m) tamn(m) ra(m) rEXAS - AMA month prw2(m)	15.65 15.7 9.4 -0.6 149. RILLO jan 0.313	12.40 16.3 10.9 0.6 228. alat(deg) feb 0.353	16.56 21.1 15.6 4.2 322. 35.23 mar 0.326	13.00 18.8 21.4 9.3 432. yrs= 28. apr 0.376	14.05 47.2 26.2 14.0 503. elev may 0.443	13.54 24.9 30.9 18.9 551. (m)=1098. jun 0.448	13.31 48.3 32.6 20.7 530. 5 tp05(m jul 0.464	12.42 42.7 31.9 20.0 473. m)= 65.8 aug 0.373	27.9 29.2 16.6 403. tp6(mm)= sep 0.303	11.58 20.3 23.2 9.9 308. 121.9 oct 0.477	11.13 22.1 15.1 4.1 208. nov 0.419	16.3 10.1 0.3 150. dec 0.365
ri(m) tamx(m) tamn(m) ra(m) ra(m) TEXAS - AMA month prw2(m) prw1(m)	15.65 15.7 9.4 -0.6 149. RILLO jan 0.313 0.081	12.40 16.3 10.9 0.6 228. alat(deg) feb 0.353 0.117	16.56 21.1 15.6 4.2 322. 35.23 mar 0.326 0.121	13.00 18.8 21.4 9.3 432. yrs= 28. apr 0.376 0.107	14.05 47.2 26.2 14.0 503. elev may 0.443 0.212	13.54 24.9 30.9 18.9 551. (m)=1098. jun 0.448 0.207	13.31 48.3 32.6 20.7 530. 5 tp05 (m jul 0.464 0.203	12.42 42.7 31.9 20.0 473. m)= 65.8 aug 0.373 0.203	27.9 29.2 16.6 403. tp6(mm)= sep 0.303 0.147	11.58 20.3 23.2 9.9 308. 121.9 oct 0.477 0.090	11.13 22.1 15.1 4.1 208. nov 0.419 0.061	16.3 10.1 0.3 150. dec 0.365 0.092
ri(m) tamx(m) tamr(m) ra(m) TEXAS - AMA month prw2(m) prw1(m) alfg(m)	15.65 15.7 9.4 -0.6 149. RILLO jan 0.313 0.081 0.654	12.40 16.3 10.9 0.6 228. alat(deg) feb 0.353 0.117 0.748	16.56 21.1 15.6 4.2 322. 35.23 mar 0.326 0.121 0.748	13.00 18.8 21.4 9.3 432. yrs= 28. apr 0.376	14.05 47.2 26.2 14.0 503. elev may 0.443	13.54 24.9 30.9 18.9 551. (m)=1098. jun 0.448 0.207 0.582	13.31 48.3 32.6 20.7 530. 5 tp05(m jul 0.464 0.203 0.615	12.42 42.7 31.9 20.0 473. m)= 65.8 aug 0.373 0.203 0.639	27.9 29.2 16.6 403. tp6(mm)= sep 0.303 0.147 0.572	11.58 20.3 23.2 9.9 308. 121.9 oct 0.477 0.090 0.664	11.13 22.1 15.1 4.1 208. nov 0.419 0.061 0.834	16.3 10.1 0.3 150. dec 0.365 0.092 0.645
ri(m) tamx(m) tamr(m) ra(m) TEXAS - AMA month prw2(m) prw1(m) alfg(m) betg(m)	15.65 15.7 9.4 -0.6 149. RILLO jan 0.313 0.081	12.40 16.3 10.9 0.6 228. alat(deg) feb 0.353 0.117	16.56 21.1 15.6 4.2 322. 35.23 mar 0.326 0.121	13.00 18.8 21.4 9.3 432. yrs= 28. apr 0.376 0.107 0.687	14.05 47.2 26.2 14.0 503. elev may 0.443 0.212 0.575	13.54 24.9 30.9 18.9 551. (m)=1098. jun 0.448 0.207	13.31 48.3 32.6 20.7 530. 5 tp05 (m jul 0.464 0.203	12.42 42.7 31.9 20.0 473. m)= 65.8 aug 0.373 0.203	27.9 29.2 16.6 403. tp6(mm)= sep 0.303 0.147	11.58 20.3 23.2 9.9 308. 121.9 oct 0.477 0.090	11.13 22.1 15.1 4.1 208. nov 0.419 0.061 0.834 5.44	16.3 10.1 0.3 150. dec 0.365 0.092 0.645 6.02
ri(m) tamx(m) tamr(m) ra(m) TEXAS - AMA month prw2(m) prw1(m) alfg(m)	15.65 15.7 9.4 -0.6 149. RILLO jan 0.313 0.081 0.654 5.44	12.40 16.3 10.9 0.6 228. alat(deg) feb 0.353 0.117 0.748 4.39	16.56 21.1 15.6 4.2 322. 35.23 mar 0.326 0.121 0.748 6.10	13.00 18.8 21.4 9.3 432. yrs= 28. apr 0.376 0.107 0.687 8.94	14.05 47.2 26.2 14.0 503. elev may 0.443 0.212 0.575 14.22	13.54 24.9 30.9 18.9 551. (m)=1098.; jun 0.448 0.207 0.582 19.13	13.31 48.3 32.6 20.7 530. tp05(m jul 0.464 0.203 0.615 13.87	12.42 42.7 31.9 20.0 473. m)= 65.8 aug 0.373 0.203 0.639 14.22	27.9 29.2 16.6 403. tp6(mm)= sep 0.303 0.147 0.572 14.33	11.58 20.3 23.2 9.9 308. 121.9 oct 0.477 0.090 0.664 12.17	11.13 22.1 15.1 4.1 208. nov 0.419 0.061 0.834	16.3 10.1 0.3 150. dec 0.365 0.092 0.645
ri(m) tamx(m) tamn(m) ra(m)  TEXAS - AMA month prw2(m) prw1(m) alfg(m) betg(m)	15.65 15.7 9.4 -0.6 149. RILLO jan 0.313 0.081 0.654 5.44 3.3	12.40 16.3 10.9 0.6 228. alat(deg) feb 0.353 0.117 0.748 4.39 2.3	16.56 21.1 15.6 4.2 322. 35.23 mar 0.326 0.121 0.748 6.10 9.7	13.00 18.8 21.4 9.3 432. yrs= 28. apr 0.376 0.107 0.687 8.94 8.9	14.05 47.2 26.2 14.0 503. elev may 0.443 0.212 0.575 14.22 39.9	13.54 24.9 30.9 18.9 551. (m)=1098. jun 0.448 0.207 0.582 19.13 52.8	13.31 48.3 32.6 20.7 530. tp05(m jul 0.464 0.203 0.615 13.87 40.6	12.42 42.7 31.9 20.0 473. m)= 65.8 aug 0.373 0.203 0.639 14.22 37.6	27.9 29.2 16.6 403. tp6(mm)= sep 0.303 0.147 0.572 14.33 25.4	11.58 20.3 23.2 9.9 308. 121.9 oct 0.477 0.090 0.664 12.17 13.2	11.13 22.1 15.1 4.1 208. nov 0.419 0.061 0.834 5.44 2.3	16.3 10.1 0.3 150. dec 0.365 0.092 0.645 6.02 38.1
ri(m) tamx(m) tamn(m) ra(m)  TEXAS - AMA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m)	15.65 15.7 9.4 -0.6 149. RILLO jan 0.313 0.081 0.654 5.44 3.3 9.9 -4.7 275.	12.40 16.3 10.9 0.6 228. alat(deg) feb 0.353 0.117 0.748 4.39 2.3 12.7	16.56 21.1 15.6 4.2 322. 35.23 mar 0.326 0.121 0.748 6.10 9.7 16.9	13.00 18.8 21.4 9.3 432. yrs= 28. apr 0.376 0.107 0.687 8.94 8.9 22.2	14.05 47.2 26.2 14.0 503. elev may 0.443 0.212 0.575 14.22 39.9 26.7	13.54 24.9 30.9 18.9 551. (m)=1098. jun 0.448 0.207 0.582 19.13 52.8 32.8	13.31 48.3 32.6 20.7 530. tp05(m jul 0.464 0.203 0.615 13.87 40.6 34.6	12.42 42.7 31.9 20.0 473. m)= 65.8 aug 0.373 0.203 0.639 14.22 37.6 33.9	27.9 29.2 16.6 403. tp6(mm)= sep 0.303 0.147 0.572 14.33 25.4 29.7	11.58 20.3 23.2 9.9 308. 121.9 oct 0.477 0.090 0.664 12.17 13.2 23.7	11.13 22.1 15.1 4.1 208. nov 0.419 0.061 0.834 5.44 2.3 15.6	16.3 10.1 0.3 150. dec 0.365 0.092 0.645 6.02 38.1 11.2
ri(m) tamx(m) tamn(m) ra(m)  TEXAS - AMA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	15.65 15.7 9.4 -0.6 149. RILLO jan 0.313 0.081 0.654 5.44 3.3 9.9 -4.7 275.	12.40 16.3 10.9 0.6 228. alat(deg) feb 0.353 0.117 0.748 4.39 2.3 12.7 -2.4	16.56 21.1 15.6 4.2 322. 325.23 mar 0.326 0.121 0.748 6.10 9.7 16.9 0.4 450.	13.00 18.8 21.4 9.3 432. yrs= 28. apr 0.376 0.107 0.687 8.9 22.2 6.1 550.	14.05 47.2 26.2 14.0 503. elev may 0.443 0.212 0.575 14.22 39.9 26.7 11.6 604.	13.54 24.9 30.9 18.9 551. (m)=1098. jun 0.448 0.207 0.582 19.13 52.8 32.8 17.2	13.31 48.3 32.6 20.7 530. tp05(m jul 0.464 0.203 0.615 13.87 40.6 34.6 19.4 666.	12.42 42.7 31.9 20.0 473. m)= 65.8 aug 0.373 0.203 0.639 14.22 37.6 33.9 18.9 558.	27.9 29.2 16.6 403. tp6(mm)= sep 0.303 0.147 0.572 14.33 25.4 29.7 14.6	11.58 20.3 23.2 9.9 308. 121.9 oct 0.477 0.090 0.664 12.17 13.2 23.7 7.9 372.	11.13 22.1 15.1 4.1 208. nov 0.419 0.061 0.834 5.44 2.3 15.6 -0.1	16.3 10.1 0.3 150. dec 0.365 0.092 0.645 6.02 38.1 11.2 -3.2
ri(m) tamx(m) tamm(m) ra(m)  TEXAS - AMA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m)  TEXAS - AUS month	15.65 15.7 9.4 -0.6 149. RILLO jan 0.313 0.081 0.654 5.44 3.3 9.9 -4.7 275. STIN a	12.40 16.3 10.9 0.6 228. alat(deg) feb 0.353 0.117 0.748 4.39 2.3 12.7 -2.4 362. lat(deg)= feb	16.56 21.1 15.6 4.2 322. 322. 325.23 mar 0.326 0.121 0.748 6.10 9.7 16.9 0.4 450. 30.30 y	13.00 18.8 21.4 9.3 432. yrs= 28. apr 0.376 0.107 0.687 8.94 8.9 22.2 6.1 550. rs= 27. apr	14.05 47.2 26.2 14.0 503. elev may 0.443 0.212 0.575 14.22 39.9 26.7 11.6 604. elev (may	13.54 24.9 30.9 18.9 551. (m)=1098. jun 0.448 0.207 0.582 19.13 52.8 32.8 32.8 17.2 675. )= 182.0 jun	13.31 48.3 32.6 20.7 530. 5 tp05(m jul 0.464 0.203 0.615 13.87 40.6 34.6 19.4 666. tp05(mm) jul	12.42 42.7 31.9 20.0 473. m)= 65.8 aug 0.373 0.203 0.639 14.22 37.6 33.9 18.9 558. 86.4 t	27.9 29.2 16.6 403. tp6(mm)= sep 0.303 0.147 0.572 14.33 25.4 29.7 14.6 532. p6(mm)= 1	11.58 20.3 23.2 9.9 308. 121.9 oct 0.477 0.090 0.664 12.17 13.2 23.7 7.9 372.	11.13 22.1 15.1 4.1 208. nov 0.419 0.061 0.834 5.44 2.3 15.6 -0.1 322.	16.3 10.1 0.3 150. dec 0.365 0.092 0.645 6.02 38.1 11.2 -3.2 268.
ri(m) tamx(m) tamn(m) ra(m) IEXAS - AMA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) TEXAS - AUS month prw2(m)	15.65 15.7 9.4 -0.6 149. RILLO jan 0.313 0.081 0.654 5.44 3.3 9.9 -4.7 275. STIN a jan 0.444	12.40 16.3 10.9 0.6 228. alat(deg) feb 0.353 0.117 0.748 4.39 2.3 12.7 -2.4 362. lat(deg)= feb 0.479	16.56 21.1 15.6 4.2 322. 325.23 mar 0.326 0.121 0.748 6.10 9.7 16.9 0.4 450. 30.30 y	13.00 18.8 21.4 9.3 432. yrs= 28. apr 0.376 0.107 0.687 8.94 8.9 22.2 6.1 550. rs= 27. apr 0.397	14.05 47.2 26.2 14.0 503. elev may 0.443 0.212 0.575 14.22 39.9 26.7 11.6 604. elev (may 0.418	13.54 24.9 30.9 18.9 551. (m)=1098. jun 0.448 0.207 0.582 19.13 52.8 32.8 17.2 675. )= 182.0 jun 0.478	13.31 48.3 32.6 20.7 530. 5 tp05(m jul 0.464 0.203 0.615 13.87 40.6 34.6 19.4 666. tp05(mn) jul 0.312	12.42 42.7 31.9 20.0 473. m)= 65.8 aug 0.373 0.203 0.639 14.22 37.6 33.9 18.9 558. 86.4 t aug 0.430	27.9 29.2 16.6 403. tp6(mm)= sep 0.303 0.147 0.572 14.33 25.4 29.7 14.6 532. p6(mm)= 1 sep 0.445	11.58 20.3 23.2 9.9 308. 121.9 oct 0.477 0.090 0.664 12.17 13.2 23.7 7.9 372. 82.9 oct 0.390	11.13 22.1 15.1 4.1 208. nov 0.419 0.061 0.834 5.44 2.3 15.6 -0.1 322. nov 0.438	16.3 10.1 0.3 150. dec 0.365 0.092 0.645 6.02 38.1 11.2 -3.2 268. dec 0.479
ri(m) tamx(m) tamn(m) ra(m) ra(m) IEXAS - AMA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) TEXAS - AUS month prw2(m) prw1(m)	15.65 15.7 9.4 -0.6 149. RILLO jan 0.313 0.081 0.654 5.44 3.3 9.9 -4.7 275. STIN a jan 0.444 0.174	12.40 16.3 10.9 0.6 228. alat(deg) feb 0.353 0.117 0.748 4.39 2.3 12.7 -2.4 362. lat(deg)= feb 0.479 0.205	16.56 21.1 15.6 4.2 322. 35.23 mar 0.326 0.121 0.748 6.10 9.7 16.9 0.4 450. 30.30 y mar 0.393 0.179	13.00 18.8 21.4 9.3 432. yrs= 28. apr 0.376 0.107 0.687 8.94 8.9 22.2 6.1 550. rs= 27. apr 0.397 0.190	14.05 47.2 26.2 14.0 503. elev may 0.443 0.212 0.575 14.22 39.9 26.7 11.6 604. elev (m may 0.418 0.197	13.54 24.9 30.9 18.9 551. (m)=1098.: jun 0.448 0.207 0.582 19.13 52.8 32.8 17.2 675. )= 182.0 jun 0.478 0.117	13.31 48.3 32.6 20.7 530. 5 tp05(m jul 0.464 0.203 0.615 13.87 40.6 34.6 19.4 666. tp05(mn) jul 0.312 0.101	12.42 42.7 31.9 20.0 473. m)= 65.8 aug 0.373 0.203 0.639 14.22 37.6 33.9 18.9 558. = 86.4 t aug 0.430 0.115	27.9 29.2 16.6 403. tp6(mm)= sep 0.303 0.147 0.572 14.33 25.4 29.7 14.6 532. p6(mm)= 1 sep 0.445 0.172	11.58 20.3 23.2 9.9 308. 121.9 oct 0.477 0.090 0.664 12.17 13.2 23.7 7.9 372. 82.9 oct 0.390 0.143	11.13 22.1 15.1 4.1 208. nov 0.419 0.061 0.834 5.44 2.3 15.6 -0.1 322. nov 0.438 0.146	16.3 10.1 0.3 150. dec 0.365 0.092 0.645 6.02 38.1 11.2 -3.2 268. dec 0.479 0.144
ri(m) tamx(m) tamn(m) ra(m) IEXAS - AMA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) IEXAS - AUS month prw2(m) prw1(m) alfg(m)	15.65 15.7 9.4 -0.6 149. IRILLO jan 0.313 0.081 0.654 5.44 3.3 9.9 -4.7 275. STIN a jan 0.444 0.174	12.40 16.3 10.9 0.6 228. alat(deg) feb 0.3553 0.117 0.748 4.39 2.3 12.7 -2.4 362. lat(deg)= feb 0.479 0.205 0.555	16.56 21.1 15.6 4.2 322. 35.23 mar 0.326 0.121 0.748 6.10 9.7 16.9 0.4 450. 30.30 y mar 0.393 0.179 0.632	13.00 18.8 21.4 9.3 432. yrs= 28. apr 0.376 0.107 0.687 8.94 8.9 22.2 6.1 550. rs= 27. apr 0.397 0.190 0.613	14.05 47.2 26.2 14.0 503. elev may 0.443 0.212 0.575 14.22 39.9 26.7 11.6 604. elev (may 0.418 0.197 0.571	13.54 24.9 30.9 18.9 551. (m)=1098.; jun 0.448 0.207 0.582 19.13 52.8 32.8 17.2 675. 182.0 jun 0.478 0.117 0.611	13.31 48.3 32.6 20.7 530. 5 tp05(m jul 0.464 0.203 0.615 13.87 40.6 34.6 19.4 666. tp05(mm) jul 0.312 0.101 0.547	12.42 42.7 31.9 20.0 473. an) = 65.8 aug 0.373 0.203 0.639 14.22 37.6 33.9 18.9 558. = 86.4 t aug 0.430 0.115 0.643	27.9 29.2 16.6 403. tp6(mm)= sep 0.303 0.147 0.572 14.33 25.4 29.7 14.6 532. p6(mm)= 1 sep 0.445 0.172	11.58 20.3 23.2 9.9 308. 121.9 oct 0.477 0.090 0.664 12.17 13.2 23.7 7.9 372. 82.9 oct 0.390 0.143 0.550	11.13 22.1 15.1 4.1 208. nov 0.419 0.061 0.834 5.44 2.3 15.6 -0.1 322. nov 0.438 0.146 0.593	16.3 10.1 0.3 150. dec 0.365 0.092 0.645 6.02 38.1 11.2 -3.2 268. dec 0.479 0.144 0.556
ri(m) tamx(m) tamn(m) ra(m) IEXAS - AMA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) IEXAS - AUS month prw2(m) prw1(m) alfg(m) betg(m)	15.65 15.7 9.4 -0.6 149. RILLO jan 0.313 0.081 0.654 5.44 3.3 9.9 -4.7 275. a jan 0.474 0.174 0.601 9.30	12.40 16.3 10.9 0.6 228. alat(deg) feb 0.3553 0.117 0.748 4.39 2.3 12.7 -2.4 362. lat(deg)= feb 0.479 0.205 0.555 16.36	16.56 21.1 15.6 4.2 322. 35.23 mar 0.326 0.121 0.748 6.10 9.7 16.9 0.4 450. 30.30 y mar 0.393 0.179 0.632 9.35	13.00 18.8 21.4 9.3 432. yrs= 28. apr 0.376 0.107 0.687 8.94 8.9 22.2 6.1 550. rs= 27. apr 0.397 0.190 0.613 17.48	14.05 47.2 26.2 14.0 503. elev may 0.443 0.212 0.575 14.22 39.9 26.7 11.6 604. elev (may 0.418 0.197 0.571 21.36	13.54 24.9 30.9 18.9 551. (m)=1098. jun 0.448 0.207 0.582 19.13 52.8 32.8 17.2 675. )= 182.0 jun 0.478 0.411 0.611 25.22	13.31 48.3 32.6 20.7 530. 5 tp05(m jul 0.464 0.203 0.615 13.87 40.6 34.6 19.4 666. tp05(mm) jul 0.312 0.101 0.547 17.81	12.42 42.7 31.9 20.0 473. m)= 65.8 aug 0.373 0.203 0.639 14.22 37.6 33.9 18.9 558. = 86.4 t aug 0.430 0.115 0.643 16.59	27.9 29.2 16.6 403. tp6(mm)= sep 0.303 0.147 0.572 14.33 25.4 29.7 14.6 532. p6(mm)= 1 sep 0.445 0.172 0.637 20.45	11.58 20.3 23.2 9.9 308. 121.9 oct 0.477 0.090 0.664 12.17 13.2 23.7 7.9 372. 82.9 oct 0.390 0.143 0.550 26.62	11.13 22.1 15.1 4.1 208. nov 0.419 0.061 0.834 5.44 2.3 15.6 -0.1 322. nov 0.438 0.146 0.593 13.56	16.3 10.1 0.3 150. dec 0.365 0.092 0.645 6.02 38.1 11.2 -3.2 268. dec 0.479 0.144 0.556 14.07
ri(m) tamx(m) tamn(m) ra(m) FEXAS - AMA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) FEXAS - AUS month prw2(m) prw1(m) alfg(m) alfg(m) ci(m)	15.65 15.7 9.4 -0.6 149. RILLO jan 0.313 0.081 0.654 5.44 3.3 9.9 -4.7 275. STIN a jan 0.414 0.417 0.601 9.30 20.6	12.40 16.3 10.9 0.6 228. alat(deg) feb 0.353 0.117 0.748 4.39 2.3 12.7 -2.4 362. lat(deg)= feb 0.479 0.205 0.555 16.36 32.3	16.56 21.1 15.6 4.2 322. 322. 326 0.121 0.748 6.10 9.7 16.9 0.4 450. 30.30 y mar 0.393 0.179 0.632 9.35	13.00 18.8 21.4 9.3 432. yrs= 28. apr 0.376 0.107 0.687 8.94 8.9 22.2 6.1 550. rs= 27. apr 0.397 0.190 0.613 17.48 26.4	14.05 47.2 26.2 14.0 503. elev may 0.443 0.212 0.575 14.22 39.9 26.7 11.6 604. elev (may 0.418 0.197 0.571 21.36 55.4	13.54 24.9 30.9 18.9 551. (m)=1098. jun 0.448 0.207 0.582 19.13 52.8 32.8 17.2 675. )= 182.0 jun 0.478 0.117 0.611 25.22 36.3	13.31 48.3 32.6 20.7 530. 5 tp05(m jul 0.464 0.203 0.615 13.87 40.6 34.6 19.4 666. tp05(mm) jul 0.312 0.101 0.547 17.81 46.5	12.42 42.7 31.9 20.0 473. m)= 65.8 aug 0.373 0.203 0.639 14.22 37.6 33.9 18.9 558. 86.4 t aug 0.430 0.115 0.643 16.59 28.4	27.9 29.2 16.6 403. tp6(mm)= sep 0.303 0.147 0.572 14.33 25.4 29.7 14.6 532. p6(mm)= 1 sep 0.445 0.172 0.637 20.45 31.8	11.58 20.3 23.2 9.9 308. 121.9 oct 0.477 0.090 0.664 12.17 13.2 23.7 7.9 372. 82.9 oct 0.390 0.143 0.550 26.62 39.9	11.13 22.1 15.1 4.1 208. nov 0.419 0.061 0.834 5.44 2.3 15.6 -0.1 322. nov 0.438 0.146 0.593 13.56 18.3	16.3 10.1 0.3 150. dec 0.365 0.092 0.645 6.02 38.1 11.2 -3.2 268. dec 0.479 0.144 0.556 14.07
ri(m) tamx(m) tamn(m) ra(m) FEXAS - AMA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) FEXAS - AUS month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamn(m) ra(m) tamn(m) ra(m) ra(m) tamn(m)	15.65 15.7 9.4 -0.6 149. RILLO jan 0.313 0.081 0.654 5.44 3.3 9.9 -4.7 275. STIN a jan 0.444 0.174 0.601 9.30 20.6 15.7	12.40 16.3 10.9 0.6 228. alat(deg) feb 0.353 0.117 0.748 4.39 2.3 12.7 -2.4 362. lat(deg)= feb 0.479 0.205 0.555 16.36 32.3 17.8	16.56 21.1 15.6 4.2 322. 322. 326 0.121 0.748 6.10 9.7 16.9 0.4 450. 30.30 y mar 0.393 0.179 0.632 9.35 13.7 21.4	13.00 18.8 21.4 9.3 432. yrs= 28. apr 0.376 0.107 0.687 8.94 8.9 22.2 6.1 550. rs= 27. apr 0.397 0.190 0.613 17.48 26.4 25.6	14.05 47.2 26.2 14.0 503. elev may 0.443 0.212 0.575 14.22 39.9 26.7 11.6 604. elev (may 0.418 0.197 0.571 21.36 55.4 29.6	13.54 24.9 30.9 18.9 551. (m)=1098. jun 0.448 0.207 0.582 19.13 52.8 32.8 17.2 675. )= 182.0 jun 0.478 0.117 0.611 25.22 36.3 33.3	13.31 48.3 32.6 20.7 530. 5 tp05(m jul 0.464 0.203 0.615 13.87 40.6 34.6 19.4 666. tp05(mm) jul 0.312 0.101 0.547 17.81 46.5 35.1	12.42 42.7 31.9 20.0 473. m)= 65.8 aug 0.373 0.203 0.639 14.22 37.6 33.9 18.9 558. 86.4 t aug 0.430 0.115 0.643 16.59 28.4 35.3	27.9 29.2 16.6 403. tp6(mm)= sep 0.303 0.147 0.572 14.33 25.4 29.7 14.6 532. p6(mm)= 1 sep 0.445 0.445 0.172 0.637 20.45 31.8 32.1	11.58 20.3 23.2 9.9 308. 121.9 oct 0.477 0.090 0.664 12.17 13.2 23.7 7.9 372. 82.9 oct 0.390 0.143 0.550 26.62 39.9 27.7	11.13 22.1 15.1 4.1 208. nov 0.419 0.061 0.834 5.44 2.3 15.6 -0.1 322. nov 0.438 0.146 0.593 13.56 18.3 20.9	16.3 10.1 0.3 150. dec 0.365 0.092 0.645 6.02 38.1 11.2 -3.2 268. dec 0.479 0.144 0.556 14.07 11.4 17.1
ri(m) tamx(m) tamn(m) ra(m) FEXAS - AMA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) FEXAS - AUS month prw2(m) prw1(m) alfg(m) alfg(m) ci(m)	15.65 15.7 9.4 -0.6 149. RILLO jan 0.313 0.081 0.654 5.44 3.3 9.9 -4.7 275. STIN a jan 0.414 0.417 0.601 9.30 20.6	12.40 16.3 10.9 0.6 228. alat(deg) feb 0.353 0.117 0.748 4.39 2.3 12.7 -2.4 362. lat(deg)= feb 0.479 0.205 0.555 16.36 32.3	16.56 21.1 15.6 4.2 322. 322. 326 0.121 0.748 6.10 9.7 16.9 0.4 450. 30.30 y mar 0.393 0.179 0.632 9.35	13.00 18.8 21.4 9.3 432. yrs= 28. apr 0.376 0.107 0.687 8.94 8.9 22.2 6.1 550. rs= 27. apr 0.397 0.190 0.613 17.48 26.4	14.05 47.2 26.2 14.0 503. elev may 0.443 0.212 0.575 14.22 39.9 26.7 11.6 604. elev (may 0.418 0.197 0.571 21.36 55.4	13.54 24.9 30.9 18.9 551. (m)=1098. jun 0.448 0.207 0.582 19.13 52.8 32.8 17.2 675. )= 182.0 jun 0.478 0.117 0.611 25.22 36.3	13.31 48.3 32.6 20.7 530. 5 tp05(m jul 0.464 0.203 0.615 13.87 40.6 34.6 19.4 666. tp05(mm) jul 0.312 0.101 0.547 17.81 46.5	12.42 42.7 31.9 20.0 473. m)= 65.8 aug 0.373 0.203 0.639 14.22 37.6 33.9 18.9 558. 86.4 t aug 0.430 0.115 0.643 16.59 28.4	27.9 29.2 16.6 403. tp6(mm)= sep 0.303 0.147 0.572 14.33 25.4 29.7 14.6 532. p6(mm)= 1 sep 0.445 0.172 0.637 20.45 31.8	11.58 20.3 23.2 9.9 308. 121.9 oct 0.477 0.090 0.664 12.17 13.2 23.7 7.9 372. 82.9 oct 0.390 0.143 0.550 26.62 39.9	11.13 22.1 15.1 4.1 208. nov 0.419 0.061 0.834 5.44 2.3 15.6 -0.1 322. nov 0.438 0.146 0.593 13.56 18.3	16.3 10.1 0.3 150. dec 0.365 0.092 0.645 6.02 38.1 11.2 -3.2 268. dec 0.479 0.144 0.556 14.07

12/010 0111	OWNSVILLE	alat(d	deg)= 25.	90 yrs= 3	29. eli	ev (m)=	4.6 tp05	5(mm)= 9:	5 3 tn6(#	nm)= 205.7		
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.459	0.485	0.413	0.380	0.433	0.527	0.387	0.484	0.540	0.420	0.440	0.492
prw1(m)	0.148	0.158	0.097	0.087	0.094	0.107	0.093	0.138	0.226	0.160	0.138	0.134
alfg(m)	0.614	0.469	0.646	0.517	0.535	0.586	0.615	0.628	0.579	0.507	0.623	0.559
betg(m)	8.23	13.44	5.21	16.15	24.84	17.73	9.70	15.27	22.96	27.28	9.70	7.90
ri(m)	8.4	18.5	2.8	41.4	25.4	35.8	25.7	45.0	31.0	58.9	21.1	21.1
tamx(m)	21.4	22.9	24.9	27.9	30.6	32.6	33.6	33.8	32.1	29.5	25.0	22.3
tamn(m)	11.2	12.6	15.0	18.6	21.6	23.7	24.2	24.1	22.6	19.2	14.6	11.9
ra(m)	297.	341.	402.	456.	564.	610.	627.	568.	475.	411.	296.	263.
TEXAS - COR	RPUS CHRIS	TI ala	at(deg)=	27.77 yr:	s= <b>3</b> 0.	elev (m)=	: 12.5 t	:p05(mm)	= 95.3 tp	6(mm)= 20°	1.9	
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.456	0.482	0.327	0.309	0.408	0.422	0.371	0.448	0.529	0.438	0.438	0.431
prw1(m)	0.171	0.165	0.138	0.130	0.153	0.130	0.104	0.113	0.219	0.142	0.136	0.141
alfg(m)	0.483	0.547	0.635	0.453	0.581	0.560	0.562	0.597	0.565	0.553	0.636	0.544
betg(m)	11.05	12.29	6.05	22.40	19.68	24.41	14.86	25.17	26.14	21.89	10.64	11.66
ri(m)	11.9	3.3	25.9	24.9	33.3	52.1	26.7	23.6	54.1	27.2	18.0	7.1
tamx(m)	19.7	21.0	23.6	26.9	29.9	32.5	34.2	<b>34.</b> 3	32.3	<b>29.</b> 2	23.2	20.4
tamn(m)	8.6	10.5	13.3	17.2	20.6	23.3	23.7	23.6	21.9	18.1	12.4	9.7
ra(m)	2 <b>75</b> .	342.	424.	454.	574.	628.	600.	572.	468.	406.	278.	272.
TEXAS - DAL		lat(deg)=			elev (m		tp05(mm)=		tp6(mm)= 1			
month	jan 0 (34	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.431	0.456	0.404	0.471	0.447	0.392	0.348	0.298	0.440	0.320	0.447	0.435
prw1(m)	0.153	0.195	0.203	0.196	0.202	0.146	0.105	0.139	0.143	0.126	0.134	0.131
alfg(m)	0.750	0.653	0.612	0.673	0.632	0.713	0.568	0.581	0.667	0.525	0.652	0.661
betg(m)	9.09	11.38	14.88	23.47	20.93	16.74	17.86	16.64	22.40	32.54	17.88	14.96
ri(m)	14.2	8.1	10.2	29.0	34.8	38.9	44.2	57.1	32.5	25.9	22.9	6.9
tamx(m)	13.2	15.3	19.4	24.1	28.2	32.7	34.7	35.0	31.3	26.0	18.7	14.4
tamn(m)	2.2 250.	4.1 320.	7.3	12.6 488.	17.3	22.1	24.1	23.9	19.7	13.8	6.7	3.4
ra(m) TEXAS - EL		320. alat(deg):	427. - 31.80 -	400. yrs= 29.	562.	651. n)= 974.8	613. tp05(mm)	593. - 40.6	503. tp6(mm)=	40 <b>3.</b> 76.2	306.	245.
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.368	0.352	0.288	0.235	0.257	0.250	0.320	0.441	0.376	0.328	0.320	0.368
prw1(m)												
	0.060	0.067	0.075	0.046	0.043	0.087		0.168	0.093	0.077	0.064	0.080
	0.060 1.011	0.067 0.911	0.075 0.817	0.046 0.658	0.043 0.709	0.087 0.694	0.229	0.168	0.093 0.558	0.077 0.827	0.064 0.890	0.080 0.976
alfg(m)	1.011	0.911	0.817	0.658	0.709	0.694	0.229 0.645	0.716	0.558	0.827	0.890	0.976
alfg(m) betg(m)							0.229					
alfg(m)	1.011 2.69	0.911 4.55	0.817 4.19	0.658 4.78	0.709 5.28	0.694 7. <b>09</b>	0.229 0.645 8.59	0.716 5.64	0.558 12.95	0.827 5.44	0.890 <b>3.7</b> 1	0.976 2.97
alfg(m) betg(m) ri(m)	1.011 2.69 17.8	0.911 4.55 4.6	0.817 4.19 22.9	0.658 4.78 3.6	0.709 5.28 10.2	0.694 7.09 15.0	0.229 0.645 8.59 21.3	0.716 5.64 16.8	0.558 12.95 21.8	0.827 5.44 11.4	0.890 3.71 1.5	0.976 2.97 3.3
alfg(m) betg(m) ri(m) tamx(m)	1.011 2.69 17.8 13.5	0.911 4.55 4.6 16.9	0.817 4.19 22.9 20.8	0.658 4.78 3.6 25.7 9.2 654.	0.709 5.28 10.2 30.5 13.8 714.	0.694 7.09 15.0 35.2	0.229 0.645 8.59 21.3 34.9 20.5 666.	0.716 5.64 16.8 33.9 19.8 640.	0.558 12.95 21.8 30.8 16.3 576.	0.827 5.44 11.4 26.0 10.0 460.	0.890 3.71 1.5 19.1	0.976 2.97 3.3 14.2
alfg(m) betg(m) ri(m) tamx(m) tamn(m)	1.011 2.69 17.8 13.5 -1.4 333.	0.911 4.55 4.6 16.9 2.1 430.	0.817 4.19 22.9 20.8 4.6	0.658 4.78 3.6 25.7 9.2	0.709 5.28 10.2 30.5 13.8 714.	0.694 7.09 15.0 35.2 19.2 729. (m)= 2.	0.229 0.645 8.59 21.3 34.9 20.5 666.	0.716 5.64 16.8 33.9 19.8	0.558 12.95 21.8 30.8 16.3 576.	0.827 5.44 11.4 26.0 10.0	0.890 3.71 1.5 19.1 2.3	0.976 2.97 3.3 14.2 -0.7
alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - GAL month	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan	0.911 4.55 4.6 16.9 2.1 430. alat(deg	0.817 4.19 22.9 20.8 4.6 547. 29.30 mar	0.658 4.78 3.6 25.7 9.2 654. yrs= 98 apr	0.709 5.28 10.2 30.5 13.8 714. elev may	0.694 7.09 15.0 35.2 19.2 729. (m)= 2. jun	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul	0.716 5.64 16.8 33.9 19.8 640. mm)= 96.5	0.558 12.95 21.8 30.8 16.3 576. tp6(mm) sep	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct	0.890 3.71 1.5 19.1 2.3 372.	0.976 2.97 3.3 14.2 -0.7 313.
alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - GAU month prw2(m)	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan 0.383	0.911 4.55 4.6 16.9 2.1 430. alat(deg feb 0.436	0.817 4.19 22.9 20.8 4.6 547. 3)= 29.30 mar 0.341	0.658 4.78 3.6 25.7 9.2 654. yrs= 98 apr 0.311	0.709 5.28 10.2 30.5 13.8 714. elev may 0.407	0.694 7.09 15.0 35.2 19.2 729. (m)= 2. jun 0.468	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul 0.453	0.716 5.64 16.8 33.9 19.8 640. nm)= 96.1 aug 0.462	0.558 12.95 21.8 30.8 16.3 576. tp6(mm) sep 0.574	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct 0.424	0.890 3.71 1.5 19.1 2.3 372. nov 0.425	0.976 2.97 3.3 14.2 -0.7 313. dec 0.436
alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - GAL month prw2(m) prw1(m)	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan 0.383 0.232	0.911 4.55 4.6 16.9 2.1 430. alat(deg feb 0.436 0.251	0.817 4.19 22.9 20.8 4.6 547. 3)= 29.30 mar 0.341 0.186	0.658 4.78 3.6 25.7 9.2 654. yrs= 98 apr 0.311 0.172	0.709 5.28 10.2 30.5 13.8 714. elev may 0.407 0.141	0.694 7.09 15.0 35.2 19.2 729. (m)= 2. jun 0.468 0.141	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul 0.453 0.162	0.716 5.64 16.8 33.9 19.8 640. m)= 96.5 aug 0.462 0.206	0.558 12.95 21.8 30.8 16.3 576. 5 tp6(mm) sep 0.574 0.175	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct 0.424 0.131	0.890 3.71 1.5 19.1 2.3 372. nov 0.425 0.156	0.976 2.97 3.3 14.2 -0.7 313. dec 0.436 0.221
alfg(m) betg(m) ri(m) tamx(m) tamn(m) tamn(m) TEXAS - GAL month prw2(m) prw1(m) alfg(m)	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan 0.383 0.232 0.640	0.911 4.55 4.6 16.9 2.1 430. alat(deg feb 0.436 0.251 0.622	0.817 4.19 22.9 20.8 4.6 547. 3)= 29.30 mar 0.341 0.186 0.567	0.658 4.78 3.6 25.7 9.2 654. yrs= 98 apr 0.311 0.172 0.551	0.709 5.28 10.2 30.5 13.8 714. elev may 0.407 0.141 0.589	0.694 7.09 15.0 35.2 19.2 729. (m)= 2. jun 0.468 0.141 0.580	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul 0.453 0.162 0.609	0.716 5.64 16.8 33.9 19.8 640. m)= 96.5 aug 0.462 0.206 0.635	0.558 12.95 21.8 30.8 16.3 576. tp6(mm) sep 0.574 0.175 0.523	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct 0.424 0.131 0.727	0.890 3.71 1.5 19.1 2.3 372. nov 0.425 0.156 0.613	0.976 2.97 3.3 14.2 -0.7 313. dec 0.436 0.221 0.691
alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - GAL month prw2(m) prw1(m) alfg(m) betg(m)	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan 0.383 0.232 0.640 12.93	0.911 4.55 4.6 16.9 2.1 430. alat(deg feb 0.436 0.251 0.622 14.38	0.817 4.19 22.9 20.8 4.6 547. 3)= 29.30 mar 0.341 0.186 0.567 13.03	0.658 4.78 3.6 25.7 9.2 654. yrs= 98 apr 0.311 0.172 0.551 20.47	0.709 5.28 10.2 30.5 13.8 714. elev may 0.407 0.141 0.589 21.29	0.694 7.09 15.0 35.2 19.2 729. (m)= 2. jun 0.468 0.141 0.580 26.14	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul 0.453 0.162 0.609 21.67	0.716 5.64 16.8 33.9 19.8 640. m)= 96.5 aug 0.462 0.206 0.635 20.45	0.558 12.95 21.8 30.8 16.3 576. tp6(mm) sep 0.574 0.175 0.523 34.47	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct 0.424 0.131 0.727 15.98	0.890 3.71 1.5 19.1 2.3 372. nov 0.425 0.156 0.613 18.24	0.976 2.97 3.3 14.2 -0.7 313. dec 0.436 0.221 0.691 16.54
alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - GAL month prw2(m) prw1(m) alfg(m) betg(m)	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan 0.383 0.232 0.640 12.93 25.9	0.911 4.55 4.6 16.9 2.1 430. alat(deg feb 0.436 0.251 0.622 14.38 12.7	0.817 4.19 22.9 20.8 4.6 547. 29.30 mar 0.341 0.186 0.567 13.03 34.8	0.658 4.78 3.6 25.7 9.2 654. yrs= 98 apr 0.311 0.172 0.551 20.47 33.8	0.709 5.28 10.2 30.5 13.8 714. elev may 0.407 0.141 0.589 21.29 61.2	0.694 7.09 15.0 35.2 19.2 729. (m) = 2. jun 0.468 0.141 0.580 26.14 24.4	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul 0.453 0.162 0.609 21.67 34.8	0.716 5.64 16.8 33.9 19.8 640. m)= 96.5 aug 0.462 0.206 0.635 20.45 51.3	0.558 12.95 21.8 30.8 16.3 576. tp6(mm) sep 0.574 0.175 0.523 34.47 30.5	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct 0.424 0.131 0.727 15.98 49.5	0.890 3.71 1.5 19.1 2.3 372. nov 0.425 0.156 0.613 18.24 39.4	0.976 2.97 3.3 14.2 -0.7 313. dec 0.436 0.221 0.691 16.54 33.5
alfg(m) betg(m) ri(m) tamx(m) tamrn(m) ra(m) TEXAS - GAL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan 0.383 0.232 0.640 12.93 25.9 15.8	0.911 4.55 4.6 16.9 2.1 430. alat(deg feb 0.436 0.251 0.622 14.38 12.7 16.9	0.817 4.19 22.9 20.8 4.6 547. 3)= 29.30 mar 0.341 0.186 0.567 13.03 34.8 19.2	0.658 4.78 3.6 25.7 9.2 654. yrs= 98. apr 0.311 0.172 0.551 20.47 33.8 22.8	0.709 5.28 10.2 30.5 13.8 714. elev may 0.407 0.141 0.589 21.29 61.2 26.7	0.694 7.09 15.0 35.2 19.2 729. (m) = 2. jun 0.468 0.141 0.580 26.14 24.4 29.8	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul 0.453 0.162 0.609 21.67 34.8 30.7	0.716 5.64 16.8 33.9 19.8 640. m)= 96.5 aug 0.462 0.206 0.635 20.45 51.3 30.8	0.558 12.95 21.8 30.8 16.3 576. tp6(mm) sep 0.574 0.175 0.523 34.47 30.5 29.2	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct 0.424 0.131 0.727 15.98 49.5 25.8	0.890 3.71 1.5 19.1 2.3 372. nov 0.425 0.156 0.613 18.24 39.4 20.3	0.976 2.97 3.3 14.2 -0.7 313. dec 0.436 0.221 0.691 16.54 33.5 17.1
alfg(m) betg(m) ri(m) tamx(m) tamrn(m) ra(m) TEXAS - GAL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m)	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan 0.383 0.232 0.640 12.93 25.9 15.8 9.6	0.911 4.55 4.6 16.9 2.1 430. alat(deg feb 0.436 0.251 0.622 14.38 12.7 16.9 10.7	0.817 4.19 22.9 20.8 4.6 547. 3)= 29.30 mar 0.341 0.186 0.567 13.03 34.8 19.2 13.4	0.658 4.78 3.6 25.7 9.2 654. yrs= 98. apr 0.311 0.172 0.551 20.47 33.8 22.8 17.8	0.709 5.28 10.2 30.5 13.8 714. elev may 0.407 0.141 0.589 21.29 61.2 26.7 21.9	0.694 7.09 15.0 35.2 19.2 729. (m)= 2. jun 0.468 0.141 0.580 26.14 24.4 29.8 25.4	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul 0.453 0.162 0.609 21.67 34.8 30.7 26.1	0.716 5.64 16.8 33.9 19.8 640. mm)= 96.5 aug 0.462 0.206 0.635 20.45 51.3 30.8 26.1	0.558 12.95 21.8 30.8 16.3 576. tp6(mm) sep 0.574 0.175 0.523 34.47 30.5 29.2 24.2	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct 0.424 0.131 0.727 15.98 49.5 25.8 20.2	0.890 3.71 1.5 19.1 2.3 372. nov 0.425 0.156 0.613 18.24 39.4 20.3 14.1	0.976 2.97 3.3 14.2 -0.7 313. dec 0.436 0.221 0.691 16.54 33.5 17.1
alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - GAL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m)	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan 0.383 0.232 0.640 12.93 25.9 15.8 9.6 297.	0.911 4.55 4.6 16.9 2.1 430. al at (des feb 0.436 0.251 0.622 14.38 12.7 16.9 10.7 341.	0.817 4.19 22.9 20.8 4.6 547. 3)= 29.30 mar 0.341 0.186 0.567 13.03 34.8 19.2 13.4 402.	0.658 4.78 3.6 25.7 9.2 654. yrs= 98 apr 0.311 0.172 0.551 20.47 33.8 22.8 17.8 456.	0.709 5.28 10.2 30.5 13.8 714. elev may 0.407 0.141 0.589 21.29 61.2 26.7 21.9 564.	0.694 7.09 15.0 35.2 19.2 729. (m)= 2. jun 0.468 0.141 0.580 26.14 24.4 29.8 25.4 610.	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul 0.453 0.162 0.609 21.67 34.8 30.7 26.1 627.	0.716 5.64 16.8 33.9 19.8 640. aug 0.462 0.206 0.635 20.45 51.3 30.8 26.1 568.	0.558 12.95 21.8 30.8 16.3 576. tp6(mm) sep 0.574 0.175 0.523 34.47 30.5 29.2 24.2 475.	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct 0.424 0.131 0.727 15.98 49.5 25.8 20.2 411.	0.890 3.71 1.5 19.1 2.3 372. nov 0.425 0.156 0.613 18.24 39.4 20.3	0.976 2.97 3.3 14.2 -0.7 313. dec 0.436 0.221 0.691 16.54 33.5 17.1
alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - GAL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m)	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan 0.383 0.232 0.640 12.93 25.9 15.8 9.6 297. USTON	0.911 4.55 4.6 16.9 2.1 430. alat(deg feb 0.436 0.251 0.622 14.38 12.7 16.9 10.7 341. alat(deg)=	0.817 4.19 22.9 20.8 4.6 547. 1)= 29.30 mar 0.341 0.186 0.567 13.03 34.8 19.2 13.4 402.	0.658 4.78 3.6 25.7 9.2 654. yrs= 98 apr 0.311 0.172 0.551 20.47 33.8 22.8 17.8 456. yrs= 36.	0.709 5.28 10.2 30.5 13.8 714. elev may 0.407 0.141 0.589 21.29 61.2 26.7 21.9 564. elev (n	0.694 7.09 15.0 35.2 19.2 729. (m)= 2. jun 0.468 0.141 0.580 26.14 24.4 29.8 25.4 610.	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul 0.453 0.162 0.609 21.67 34.8 30.7 26.1 627. tp05(mm)	0.716 5.64 16.8 33.9 19.8 640. aug 0.462 0.206 0.635 20.45 51.3 30.8 26.1 568.	0.558 12.95 21.8 30.8 16.3 576. tp6(mm) sep 0.574 0.175 0.523 34.47 30.5 29.2 24.2 475. tp6(mm)=	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct 0.424 0.131 0.727 15.98 49.5 25.8 20.2 411.	0.890 3.71 1.5 19.1 2.3 372. nov 0.425 0.156 0.613 18.24 20.3 14.1 296.	0.976 2.97 3.3 14.2 -0.7 313. dec 0.436 0.221 0.691 16.54 33.5 17.1 10.9 263.
alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - GAL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - HOL month	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan 0.383 0.232 0.640 12.93 25.9 15.8 9.6 297. USTON	0.911 4.55 4.6 16.9 2.1 430. al at (deg feb 0.436 0.251 0.622 14.38 12.7 16.9 10.7 341. al at (deg)=	0.817 4.19 22.9 20.8 4.6 547. 0.341 0.186 0.567 13.03 34.8 19.2 13.4 402.	0.658 4.78 3.6 25.7 9.2 654. yrs= 98 apr 0.311 0.172 0.551 20.47 33.8 22.8 17.8 456. yrs= 36. apr	0.709 5.28 10.2 30.5 13.8 714. elev may 0.407 0.141 0.589 21.29 61.2 26.7 21.9 564. elev (may	0.694 7.09 15.0 35.2 19.2 729. (m)= 2. jun 0.468 0.141 0.580 26.14 24.4 29.8 25.4 610. n)= 15.2 jun	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul 0.453 0.162 0.609 21.67 34.8 30.7 26.1 627. tp05(mm) jul	0.716 5.64 16.8 33.9 19.8 640. mm)= 96.5 aug 0.462 0.206 0.635 20.45 51.3 30.8 26.1 568. = 95.3 aug	0.558 12.95 21.8 30.8 16.3 576. tp6(mm) sep 0.574 0.175 0.523 34.47 30.5 29.2 24.2 475. tp6(mm)= sep	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct 0.424 0.131 0.727 15.98 49.5 25.8 20.2 411. 223.5 oct	0.890 3.71 1.5 19.1 2.3 372. nov 0.425 0.156 0.613 18.24 20.3 14.1 296.	0.976 2.97 3.3 14.2 -0.7 313. dec 0.436 0.221 0.691 16.54 33.5 17.1 10.9 263. dec
alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - GAL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) TEXAS - HOL month prw2(m)	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan 0.383 0.232 0.640 12.93 25.9 15.8 9.6 297. USTON jan 0.407	0.911 4.55 4.6 16.9 2.1 430. alat(deg feb 0.436 0.251 0.622 14.38 12.7 16.9 10.7 341. alat(deg)=	0.817 4.19 22.9 20.8 4.6 547. 0)= 29.30 mar 0.341 0.186 0.567 13.03 34.8 19.2 13.4 402. 29.97 mar 0.369	0.658 4.78 3.6 25.7 9.2 654. yrs= 98 apr 0.311 0.172 0.551 20.47 33.8 22.8 17.8 456. yrs= 36. apr 0.410	0.709 5.28 10.2 30.5 13.8 714. elev may 0.407 0.141 0.589 21.29 61.2 26.7 21.9 564. elev (n	0.694 7.09 15.0 35.2 19.2 729. (m)= 2. jun 0.468 0.141 0.580 26.14 24.4 29.8 25.4 610. n)= 15.2 jun 0.478	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul 0.453 0.162 0.609 21.67 34.8 30.7 26.1 627. tp05(mm) jul 0.443	0.716 5.64 16.8 33.9 19.8 640. mm)= 96.5 aug 0.462 0.206 0.635 20.45 51.3 30.8 26.1 568. = 95.3 aug	0.558 12.95 21.8 30.8 16.3 576. tp6(mm) sep 0.574 0.175 0.523 34.47 30.5 29.2 24.2 24.75. tp6(mm)= sep 0.541	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct 0.424 0.131 0.727 15.98 49.5 25.8 20.2 411. 223.5 oct 0.508	0.890 3.71 1.5 19.1 2.3 372. nov 0.425 0.156 0.613 18.24 39.4 20.3 14.1 296.	0.976 2.97 3.3 14.2 -0.7 313. dec 0.436 0.221 0.691 16.54 33.5 17.1 10.9 263. dec 0.473
alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - GAL month prW2(m) prW1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - HOL month prW2(m) prW1(m)	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan 0.383 0.232 0.640 12.93 25.9 15.8 9.6 297. USTON jan 0.407	0.911 4.55 4.6 16.9 2.1 430. alat(deg feb 0.436 0.251 0.622 14.38 12.7 16.9 10.7 341. alat(deg)= feb 0.492 0.237	0.817 4.19 22.9 20.8 4.6 547. 0)= 29.30 mar 0.341 0.186 0.567 13.03 34.8 19.2 13.4 402. 29.97 mar 0.369 0.218	0.658 4.78 3.6 25.7 9.2 654. yrs= 98 apr 0.311 0.172 0.551 20.47 33.8 22.8 17.8 456. yrs= 36. apr 0.410 0.212	0.709 5.28 10.2 30.5 13.8 714. elev may 0.407 0.141 0.589 21.29 61.2 26.7 21.9 564. elev (may 0.440 0.189	0.694 7.09 15.0 35.2 19.2 729. (m)= 2. jun 0.468 0.141 0.580 26.14 24.4 29.8 25.4 610. n)= 15.2 jun 0.478 0.156	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul 0.453 0.162 0.609 21.67 34.8 30.7 26.1 627. tp05(mm) jul 0.443 0.214	0.716 5.64 16.8 33.9 19.8 640. m)= 96.5 aug 0.462 0.206 0.635 20.45 51.3 30.8 26.1 568. 95.3 aug 0.464 0.219	0.558 12.95 21.8 30.8 16.3 576. tp6(mm) sep 0.574 0.175 0.523 34.47 30.5 29.2 24.2 24.5 tp6(mm)= sep 0.541 0.186	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct 0.424 0.131 0.727 15.98 49.5 25.8 20.2 411. 223.5 oct 0.508 0.135	0.890 3.71 1.5 19.1 2.3 372. nov 0.425 0.156 0.613 18.24 39.4 20.3 14.1 296. nov 0.410 0.205	0.976 2.97 3.3 14.2 -0.7 313. dec 0.436 0.221 0.691 16.54 33.5 17.1 10.9 263. dec 0.473
alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - GAL month prW2(m) prW1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - HOL month prW2(m) prW1(m) alfg(m)	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan 0.383 0.232 0.640 12.93 25.9 15.8 9.6 297. USTON jan 0.407 0.253 0.558	0.911 4.55 4.6 16.9 2.1 430. al at (deg feb 0.436 0.251 0.622 14.38 12.7 16.9 10.7 341. al at (deg)= feb 0.492 0.237 0.564	0.817 4.19 22.9 20.8 4.6 547. 3)= 29.30 mar 0.341 0.186 0.567 13.03 34.8 19.2 13.4 402. 29.97 mar 0.369 0.218 0.507	0.658 4.78 3.6 25.7 9.2 654. yrs= 98 apr 0.311 0.172 0.551 20.47 33.8 22.8 17.8 456. yrs= 36. apr 0.212 0.485	0.709 5.28 10.2 30.5 13.8 714. elev may 0.407 0.141 0.589 21.29 61.2 26.7 21.9 564. elev (may 0.440 0.189 0.565	0.694 7.09 15.0 35.2 19.2 729. (m)= 2. juin 0.468 0.141 0.580 26.14 24.4 29.8 25.4 610. n)= 15.2 juin 0.478 0.156 0.585	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul 0.453 0.162 0.609 21.67 34.8 30.7 26.7 tp05(mm) jul 0.443 0.214 0.594	0.716 5.64 16.8 33.9 19.8 640. m)= 96.5 aug 0.462 0.206 0.635 20.45 51.3 30.8 26.1 568. 95.3 aug 0.464 0.219	0.558 12.95 21.8 30.8 16.3 576. tp6(mm) sep 0.574 0.175 0.523 34.47 30.5 29.2 24.2 4.75 tp6(mm)= sep 0.584 0.186 0.645	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct 0.424 0.131 0.727 15.98 49.5 25.8 20.2 411. 223.5 oct 0.508 0.135 0.545	0.890 3.71 1.5 19.1 2.3 372. nov 0.425 0.156 0.613 18.24 39.4 20.3 14.1 296. nov 0.410 0.205 0.584	0.976 2.97 3.3 14.2 -0.7 313. dec 0.436 0.221 0.691 16.54 33.5 17.1 10.9 263. dec 0.473 0.232
alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - GAL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - HOL month prw2(m) prw1(m) alfg(m) betg(m) camn(m) alfg(m) betg(m) month prw2(m) prw1(m) alfg(m) betg(m)	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan 0.383 0.232 0.640 12.93 25.9 15.8 9.6 297. USTON jan 0.253 0.558 15.62	0.911 4.55 4.6 16.9 2.1 430. alat(deg feb 0.436 0.251 0.622 14.38 12.7 16.9 10.7 341. alat(deg)= feb 0.492 0.237 0.564 19.15	0.817 4.19 22.9 20.8 4.6 547. 3)= 29.30 mar 0.341 0.186 0.567 13.03 34.8 19.2 13.4 402. 29.97 mar 0.369 0.218 0.507 14.58	0.658 4.78 3.6 25.7 9.2 654. yrs= 98 apr 0.311 0.172 0.551 20.47 33.8 22.8 17.8 456. apr 0.410 0.212 0.485 22.83	0.709 5.28 10.2 30.5 13.8 714. elev may 0.407 0.141 0.589 21.29 61.2 26.7 21.9 564. elev (n may 0.407 0.189 0.565 27.56	0.694 7.09 15.0 35.2 19.2 729. (m) = 2. jun 0.468 0.141 0.580 26.14 24.4 29.8 25.4 610. 15.2 jun 0.478 0.156 0.585 28.24	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul 0.453 0.162 0.609 21.67 34.8 30.7 26.1 627. tp05(mm) jul 0.443 0.214 0.594 18.03	0.716 5.64 16.8 33.9 19.8 640. mn)= 96.5 aug 0.462 0.206 0.635 20.45 51.3 30.8 26.1 568. 95.3 aug 0.464 0.219 0.581 18.97	0.558 12.95 21.8 30.8 16.3 576. tp6(mm) sep 0.574 0.175 0.523 34.47 30.5 29.2 24.2 475. tp6(mm)= sep 0.541 0.186 0.645 21.41	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct 0.424 0.131 0.727 15.98 49.5 25.8 20.2 411. 223.5 oct 0.508 0.135 0.545 26.26	0.890 3.71 1.5 19.1 2.3 372. nov 0.425 0.156 0.613 18.24 39.4 20.3 14.1 296. nov 0.410 0.205 0.584 19.66	0.976 2.97 3.3 14.2 -0.7 313. dec 0.436 0.221 0.691 16.54 33.5 17.1 10.9 263. dec 0.473 0.232 0.626 16.84
alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) TEXAS - GAL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - HOL month prw2(m) prw1(m) alfg(m) ci(m) ri(m) ra(m)	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan 0.383 0.232 0.640 12.93 25.9 15.8 9.6 297. USTON jan 0.407 0.253 0.558 15.62 17.3	0.911 4.55 4.6 16.9 2.1 430. alat(deg feb 0.436 0.251 0.622 14.38 12.7 16.9 10.7 341. alat(deg)= feb 0.492 0.237 0.564 19.15 24.4	0.817 4.19 22.9 20.8 4.6 547. 1)= 29.30 mar 0.341 0.186 0.567 13.03 34.8 19.2 13.4 402. 29.97 mar 0.369 0.218 0.507 14.58 19.3	0.658 4.78 3.6 25.7 9.2 654. yrs= 98 apr 0.311 0.172 0.551 20.47 33.8 22.8 17.8 456. yrs= 36. apr 0.410 0.212 0.485 22.83 61.2	0.709 5.28 10.2 30.5 13.8 714. elev may 0.407 0.141 0.589 21.29 61.2 26.7 21.9 564. elev (may 0.440 0.189 0.565 27.56 60.2	0.694 7.09 15.0 35.2 19.2 729. (m)= 2. jun 0.468 0.141 0.580 26.14 29.8 25.4 610. n)= 15.2 jun 0.478 0.156 0.585 28.24 53.8	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul 0.453 0.162 0.609 21.67 34.8 30.7 26.1 627. tp05(mm) jul 0.443 0.214 0.594 18.03 36.8	0.716 5.64 16.8 33.9 19.8 640. 19.8 0.462 0.206 0.635 20.45 51.3 30.8 26.1 568. 95.3 aug 0.464 0.219 0.581 18.97 55.9	0.558 12.95 21.8 30.8 16.3 576. tp6(mm) sep 0.574 0.175 0.523 34.47 30.5 29.2 24.2 475. tp6(mm)= sep 0.541 0.186 0.645 21.41 40.9	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct 0.424 0.131 0.727 15.98 49.5 25.8 20.2 411. 223.5 oct 0.508 0.135 0.545 26.26 42.4	0.890 3.71 1.5 19.1 2.3 372. nov 0.425 0.156 0.613 18.24 20.3 14.1 296. nov 0.410 0.205 0.584 19.66 26.2	0.976 2.97 3.3 14.2 -0.7 313. dec 0.436 0.221 0.691 16.54 33.5 17.1 10.9 263. dec 0.473 0.232 0.626 16.84 23.1
alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) TEXAS - GAL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) TEXAS - HOL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m)	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan 0.383 0.232 0.640 12.93 25.9 15.8 9.6 297. USTON jan 0.407 0.253 0.558 15.62 17.3	0.911 4.55 4.6 16.9 2.1 430. al at (des feb 0.436 0.251 0.622 14.38 12.7 16.9 10.7 341. al at (deg)= feb 0.492 0.237 0.564 19.15 24.4 18.6	0.817 4.19 22.9 20.8 4.6 547. 3)= 29.30 mar 0.341 0.186 0.567 13.03 34.8 19.2 13.4 402. 29.97 mar 0.369 0.218 0.507 14.58 19.3 22.1	0.658 4.78 3.6 25.7 9.2 654. yrs= 98 apr 0.311 0.172 0.551 20.47 33.8 22.8 17.8 456. yrs= 36. apr 0.410 0.212 0.485 22.83 61.2 25.6	0.709 5.28 10.2 30.5 13.8 714. elev may 0.407 0.141 0.589 21.29 61.2 26.7 21.9 564. elev (n may 0.440 0.189 0.565 27.56 60.2 29.8	0.694 7.09 15.0 35.2 19.2 729. (m)= 2. jun 0.468 0.141 0.580 26.14 24.4 29.8 25.4 610. n)= 15.2 jun 0.478 0.156 0.585 28.24 53.8 32.8	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul 0.453 0.162 0.609 21.67 34.8 30.7 26.1 627. tp05(mm) jul 0.443 0.214 0.594 18.03 36.8 33.4	0.716 5.64 16.8 33.9 19.8 640. aug 0.462 0.206 0.635 20.45 51.3 30.8 26.1 568. 95.3 aug 0.464 0.219 0.581 18.97 55.9 33.8	0.558 12.95 21.8 30.8 16.3 576. tp6(mm) sep 0.574 0.175 0.523 34.47 30.5 29.2 24.2 475. tp6(mm)= sep 0.541 0.186 0.645 21.41 40.9 31.7	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct 0.424 0.131 0.727 15.98 49.5 25.8 20.2 411. 223.5 oct 0.508 0.135 0.545 26.26 42.4 27.9	0.890 3.71 1.5 19.1 2.3 372. nov 0.425 0.156 0.613 18.24 39.4 20.3 14.1 296. nov 0.410 0.205 0.584 19.66 26.2 21.7	0.976 2.97 3.3 14.2 -0.7 313. dec 0.436 0.221 0.691 16.54 33.5 17.1 10.9 263. dec 0.473 0.232 0.626 16.84 23.1 18.6
alfg(m) betg(m) ri(m) tamx(m) tamx(m) ra(m) TEXAS - GAL month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) TEXAS - HOL month prw2(m) prw1(m) alfg(m) ci(m) ri(m) ra(m)	1.011 2.69 17.8 13.5 -1.4 333. VESTON jan 0.383 0.232 0.640 12.93 25.9 15.8 9.6 297. USTON jan 0.407 0.253 0.558 15.62 17.3	0.911 4.55 4.6 16.9 2.1 430. alat(deg feb 0.436 0.251 0.622 14.38 12.7 16.9 10.7 341. alat(deg)= feb 0.492 0.237 0.564 19.15 24.4	0.817 4.19 22.9 20.8 4.6 547. 1)= 29.30 mar 0.341 0.186 0.567 13.03 34.8 19.2 13.4 402. 29.97 mar 0.369 0.218 0.507 14.58 19.3	0.658 4.78 3.6 25.7 9.2 654. yrs= 98 apr 0.311 0.172 0.551 20.47 33.8 22.8 17.8 456. yrs= 36. apr 0.410 0.212 0.485 22.83 61.2	0.709 5.28 10.2 30.5 13.8 714. elev may 0.407 0.141 0.589 21.29 61.2 26.7 21.9 564. elev (may 0.440 0.189 0.565 27.56 60.2	0.694 7.09 15.0 35.2 19.2 729. (m)= 2. jun 0.468 0.141 0.580 26.14 29.8 25.4 610. n)= 15.2 jun 0.478 0.156 0.585 28.24 53.8	0.229 0.645 8.59 21.3 34.9 20.5 666. 1 tp05(m jul 0.453 0.162 0.609 21.67 34.8 30.7 26.1 627. tp05(mm) jul 0.443 0.214 0.594 18.03 36.8	0.716 5.64 16.8 33.9 19.8 640. 19.8 0.462 0.206 0.635 20.45 51.3 30.8 26.1 568. 95.3 aug 0.464 0.219 0.581 18.97 55.9	0.558 12.95 21.8 30.8 16.3 576. tp6(mm) sep 0.574 0.175 0.523 34.47 30.5 29.2 24.2 475. tp6(mm)= sep 0.541 0.186 0.645 21.41 40.9	0.827 5.44 11.4 26.0 10.0 460. = 228.6 oct 0.424 0.131 0.727 15.98 49.5 25.8 20.2 411. 223.5 oct 0.508 0.135 0.545 26.26 42.4	0.890 3.71 1.5 19.1 2.3 372. nov 0.425 0.156 0.613 18.24 20.3 14.1 296. nov 0.410 0.205 0.584 19.66 26.2	0.976 2.97 3.3 14.2 -0.7 313. dec 0.436 0.221 0.691 16.54 33.5 17.1 10.9 263. dec 0.473 0.232 0.626 16.84 23.1

dec 492 134 559 '.90 !1.1 !2.3 1.9

dec .431 .141 .544 1.66 7.1 !0.4 9.7 !?72.

dec .435 .131 .661

6.9 14.4 3.4 245.

dec .368 .080 .976 2.97 3.3 14.2 -0.7 313.

dec .436 .221 .691 5.54 33.5 17.1 10.9 263.

dec .473 .232 .626 5.84 23.1 18.6 7.7

263.

TEXAS - SAN	_		deg)= 29.53	,				5(mm)= 85.	, .	179.1		1
month prw2(m)	jan 0.446	feb 0.494	mar 0.409	арг 0.387	may 0.403	jun 0.417	jul 0.319	aug 0.378	sep 0.486	oct 0.445	no∨ 0.448	dec 0.432
prw1(m)	0.180	0.195	0.166	0.179	0.195	0.123	0.088	0.115	0.167	0.135	0.140	0.452
alfg(m)	0.521	0.604	0.502	0.545	0.592	0.562	0.495	0.566	0.689	0.600	0.577	0.606
betg(m)	9.96	11.51	10.67	14.83	18.26	24.05	21.36	19.53	16.51	19.35	15.06	8.71
ri(m)	7.4	19.8	12.7	51.6	43.9	38.9	29.0	32.0	43.2	35.8	35.1	11.2
tamx(m)	16.8	18.9	22.4	26.0	29.6	33.1	34.4	34.6	31.4	27.5	21.3	18.6
tamn(m)	5.3	7.1	9.8	14.2	18.6	22.3	23.3	23.0	20.4	15.3	9.2	5.6
ra(m)	279.	347.	417.	445.	541.	612.	639.	585.	493.	398.	295.	256.
TEXAS - WAC	:O alat	(deg)=3	1.62 yrs=	26. e	lev (m)=		p05(mn) = 8	35.1 tp6(	mm)= 181.	6		
month	jan	feb	mar	арг	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.397	0.424	0.417	0.414	0.429	0.416	0.344	0.386	0.455	0.337	0.425	0.414
prw1(m)	0.148	0.210	0.166	0.203	0.188	0.138	0.072	0.111	0.138	0.123	0.142	0.133
alfg(m)	0.650	0.744	0.676	0.573	0.612	0.651	0.639	0.711	0.706	0.626	0.707	0.677
betg(m)	10.54	9.83	11.33	21.29	25.76	17.75	12.52	13.87	19.71	21.79	14.73	11.94
ri(m)	10.7	17.0	17.5 20.6	23.9 25.2	40.1 29.3	22.9 33.6	50.8 <b>35.6</b>	29.2 35.9	31.8 32.3	36.8 27.3	8.9 20.1	12.2 16.0
tamx(m)	14.6 3.2	16.6 5.0	8.2	13.2	17.7	21.9	23.7	23.5	19.9	14.2	7.4	4.3
tamn(m) ra(m)	250.	320.	427.	488.	562.	651.	613.	593.	503.	403.	306.	245.
UTAH - MILF			38.43 yrs		elev (m)			= 26.2 tp		0.8	300.	273.
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.364	0.400	0.497	0.442	0.412	0.403	0.344	0.392	0.313	0.408	0.364	0.441
prw1(m)	0.151	0.200	0.156	0.153	0.099	0.079	0.119	0.147	0.100	0.078	0.111	0.131
alfg(m)	0.863	0.990	0.981	0.920	ü.998	0.770	0.771	0.890	0.721	0.848	0.889	0.956
betg(m)	3.10	2.67	3.38	4.04	3.38	4.70	3.91	2.84	6.78	4.44	4.29	2.84
ri(m)	3.3	3.6	3.6	4.1	7.4	4.6	9.7	10.7	5.6	5.1	4.3	2.3
tamx(m)	2.2	6.0	11.9	17.6	23.2	28.8	33.6	31.9	27.1	19.6	11.7	4.8
tamn(m)	-11.4	-7.3	-3.9	-0.1	4.3	8.7	13.1	12.2	6.9	0.4	-5.8	-9.3
ra(m)	236.	339.	468.	563.	625.	712.	647.	618.	518.	394.	289.	218.
LITAU CALT												
	LAKE CITY		t(deg)= 40.	,	_	lev (m)=		o05(mm)= 2		mm)= 57.		
month	jan	feb	mar	арг	may	jun	jul	aug	sep	oct	nov	dec
month prw2(m)	jan 0.479	feb 0.397	mar 0.463	арг 0.525	may 0.487	jun 0.500	jul 0.315	aug 0.373	sep 0.389	oct 0.461	nov 0.434	0.497
month prw2(m) prw1(m)	jan 0.479 0.226	feb 0.397 0.263	mar 0.463 0.236	apr 0.525 0.239	may 0.487 0.165	jun 0.500 0.139	jul 0.315 0.104	aug 0.373 0.139	sep 0.389 0.111	oct 0.461 0.108	no∨ 0.434 0.170	0.497 0.230
month prw2(m) prw1(m) alfg(m)	jan 0.479 0.226 0.854	feb 0.397 0.263 0.881	mar 0.463 0.236 0.911	apr 0.525 0.239 0.799	may 0.487 0.165 0.853	jun 0.500 0.139 0.734	jul 0.315 0.104 0.635	aug 0.373 0.139 0.638	sep 0.389 0.111 0.696	oct 0.461 0.108 0.702	nov 0.434 0.170 0.821	0.497 0.230 0.879
month prw2(m) prw1(m) alfg(m) betg(m)	jan 0.479 0.226 0.854 4.19	feb 0.397 0.263 0.881 4.29	mar 0.463 0.236 0.911 4.52	apr 0.525 0.239 0.799 7.01	may 0.487 0.165 0.853 5.23	jun 0.500 0.139 0.734 6.32	jul 0.315 0.104 0.635 7.59	aug 0.373 0.139 0.638 6.71	sep 0.389 0.111 0.696 5.56	oct 0.461 0.108 0.702 6.73	nov 0.434 0.170 0.821 5.38	0.497 0.230 0.879 4.32
month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	jan 0.479 0.226 0.854 4.19 4.3	feb 0.397 0.263 0.881 4.29 3.8	mar 0.463 0.236 0.911 4.52 5.6	apr 0.525 0.239 0.799 7.01 6.6	may 0.487 0.165 0.853 5.23 4.8	jun 0.500 0.139 0.734 6.32 4.8	jul 0.315 0.104 0.635 7.59 7.9	aug 0.373 0.139 0.638 6.71 12.2	sep 0.389 0.111 0.696 5.56 15.7	oct 0.461 0.108 0.702 6.73 6.1	nov 0.434 0.170 0.821 5.38 3.8	0.497 0.230 0.879 4.32 2.8
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	jan 0.479 0.226 0.854 4.19 4.3 2.2	feb 0.397 0.263 0.881 4.29 3.8 5.9	mar 0.463 0.236 0.911 4.52 5.6 11.1	apr 0.525 0.239 0.799 7.01 6.6 17.1	may 0.487 0.165 0.853 5.23 4.8 22.7	jun 0.500 0.139 0.734 6.32 4.8 28.0	jul 0.315 0.104 0.635 7.59 7.9 33.5	aug 0.373 0.139 0.638 6.71 12.2 32.1	sep 0.389 0.111 0.696 5.56 15.7 26.3	oct 0.461 0.108 0.702 6.73 6.1 19.2	nov 0.434 0.170 0.821 5.38 3.8 10.1	0.497 0.230 0.879 4.32 2.8 4.5
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m)	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3	mar 0.463 0.236 0.911 4.52 5.6 11.1	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4	oct 0.461 0.108 0.702 6.73 6.1 19.2 4.0	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9	0.497 0.230 0.879 4.32 2.8 4.5 -5.1
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m)	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163.	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256.	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354.	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479.	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570.	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621.	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620.	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446.	oct 0.461 0.108 0.702 6.73 6.1 19.2 4.0 316.	nov 0.434 0.170 0.821 5.38 3.8 10.1	0.497 0.230 0.879 4.32 2.8 4.5
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA -	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(d	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg)= 36.90	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570.	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621.	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620.	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551.	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm)	oct 0.461 0.108 0.702 6.73 6.1 19.2 4.0 316.	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204.	0.497 0.230 0.879 4.32 2.8 4.5 -5.1
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK jan	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(d	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg)= 36.90 mar	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22 apr	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570. elev may	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621.	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620. 6.7 tp05	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551. (mm)= 82.5 aug	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm) sep	oct 0.461 0.108 0.702 6.73 6.1 19.2 4.0 316. = 162.6 oct	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204.	0.497 0.230 0.879 4.32 2.8 4.5 -5.1 146.
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA -	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(d	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg)= 36.90	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570. elev	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621.	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620.	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551.	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm)	oct 0.461 0.108 0.702 6.73 6.1 19.2 4.0 316.	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204.	0.497 0.230 0.879 4.32 2.8 4.5 -5.1
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m)	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK jan 0.477	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(d feb 0.470	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg)= 36.90 mar 0.429	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22 apr 0.442	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570. elev may 0.445	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621. (m)= jun 0.435	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620. 6.7 tp05 jul 0.535	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551. (mm)= 82.5 aug 0.484	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm) sep 0.478	oct 0.461 0.108 0.702 6.73 6.1 19.2 4.0 316. = 162.6 oct 0.453	0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204.	0.497 0.230 0.879 4.32 2.8 4.5 -5.1 146. dec 0.405
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m)	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK jan 0.477 0.246	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(d feb 0.470 0.289	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg)= 36.90 mar 0.429 0.316	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22 apr 0.442 0.301	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570. elev may 0.445 0.242	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621. (m)= jun 0.435 0.228	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620. 6.7 tp05: jul 0.535 0.266	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551. (mm)= 82.5 aug 0.484 0.272	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm) sep 0.478 0.184 0.519 26.52	oct 0.461 0.108 0.702 6.73 6.1 19.2 4.0 316. = 162.6 oct 0.453 0.174	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204. nov 0.412 0.223	0.497 0.230 0.879 4.32 2.8 4.5 -5.1 146. dec 0.405 0.226
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m) alfg(m)	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK jan 0.477 0.246 0.728	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(d feb 0.470 0.289 0.757	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg)= 36.90 mar 0.429 0.316 0.744	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22 apr 0.442 0.301 0.782	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570. elev may 0.445 0.242 0.727	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621. (m)= jun 0.435 0.228 0.645	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620. 6.7 tp05 jul 0.535 0.266 0.704	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551. (mm)= 82.5 aug 0.484 0.272 0.608	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm) sep 0.478 0.184 0.519	oct 0.461 0.108 0.702 6.73 6.1 19.2 4.0 316. = 162.6 oct 0.453 0.174 0.619	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204. nov 0.412 0.223 0.666	0.497 0.230 0.879 4.32 2.8 4.5 -5.1 146. dec 0.405 0.226 0.823
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m) alfg(m) betg(m)	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK jan 0.477 0.246 0.728 12.52	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(d feb 0.470 0.289 0.757 11.33	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg)= 36.90 mar 0.429 0.316 0.744 10.82	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22 apr 0.442 0.301 0.782 8.41	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570. elev may 0.445 0.242 0.727 12.12	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621. (m)= jun 0.435 0.228 0.645 15.67	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620. 6.7 tp05 jul 0.535 0.266 0.704 16.43 50.5 31.1	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551. (mm)= 82.5 aug 0.484 0.272 0.608 23.72 21.1 30.1	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm) sep 0.478 0.184 0.519 26.52 31.0 27.2	oct 0.461 0.108 0.702 6.73 6.1 19.2 4.0 316. = 162.6 oct 0.453 0.174 0.619 18.11	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204. nov 0.412 0.223 0.666 12.90 23.1 16.1	0.497 0.230 0.879 4.32 2.8 4.5 -5.1 146. dec 0.405 0.226 0.823 11.48
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamx(m) tamx(m)	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK jan 0.477 0.246 0.728 12.52 14.5	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(d feb 0.470 0.289 0.757 11.33	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg)= 36.90 mar 0.429 0.316 0.744 10.82 11.7	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22 apr 0.442 0.301 0.782 8.41 18.8	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570. elev may 0.445 0.242 0.727 12.12 38.9	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621. (m)= jun 0.435 0.228 0.645 15.67 25.1	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620. 6.7 tp05 jul 0.535 0.266 0.704 16.43 50.5	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551. (mm)= 82.5 aug 0.484 0.272 0.608 23.72 21.1	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm) sep 0.478 0.184 0.519 26.52 31.0	oct 0.461 0.108 0.702 6.73 6.1 19.2 4.0 316. = 162.6 oct 0.453 0.174 0.619 18.11 13.7	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204. nov 0.412 0.223 0.666 12.90 23.1 16.1 5.4	0.497 0.230 0.879 4.32 2.8 4.5 -5.1 146. dec 0.405 0.226 0.823 11.48 8.6
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) vIRGINIA month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m)	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK jan 0.477 0.246 0.728 12.52 14.5 10.1 0.1	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(difeb 0.470 0.289 0.757 11.33 18.0 10.6 0.1 294.	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg)= 36.90 mar 0.429 0.316 0.744 10.82 11.7 14.0 3.7 358.	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22 apr 0.442 0.301 0.782 8.41 18.8 20.0 8.8 434.	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570. elev may 0.445 0.242 0.727 12.12 38.9 25.2 14.3 528.	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621. (m)= jun 0.435 0.228 0.645 15.67 25.1 29.4 19.1	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620. 6.7 tp05 jul 0.535 0.266 0.704 16.43 50.5 31.1 20.9 530.	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551. (mm)= 82.5 aug 0.484 0.272 0.608 23.72 21.1 30.1 20.4 450.	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm) sep 0.478 0.184 0.184 0.519 26.52 31.0 27.2 17.9 395.	oct 0.461 0.108 0.702 6.73 6.1 199.2 4.0 316. = 162.6 oct 0.453 0.174 0.619 18.11 13.7 21.6 11.7 301.	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204. nov 0.412 0.223 0.666 12.90 23.1 16.1	0.497 0.230 0.879 4.32 2.8 4.5 -5.1 146. dec 0.405 0.226 0.823 11.48 8.6 11.0
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) VIRGINIA	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK jan 0.477 0.246 0.728 12.52 14.5 10.1 0.1 192. RICHMOND	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(d feb 0.470 0.289 0.757 11.33 18.0 10.6 0.1 294. alat(d	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg)= 36.90 mar 0.429 0.316 0.744 10.82 11.7 14.0 3.7 358. deg)= 37.50	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22 apr 0.442 0.301 0.782 8.41 18.8 20.0 8.8 434. yrs= 3	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570. elev may 0.445 0.242 0.727 12.12 38.9 25.2 14.3 528.	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621. (m)= jun 0.435 0.228 0.645 15.67 25.1 29.4 19.1 545.	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620. 6.7 tp05 0.535 0.266 0.704 16.43 50.5 31.1 20.9 530.	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551. (mm)= 82.5 aug 0.484 0.272 0.608 23.72 21.1 30.1 20.4 450.5	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm) sep 0.478 0.184 0.184 0.519 26.52 31.0 27.2 17.9 395. 7 tp6(mm	oct 0.461 0.108 0.702 6.73 6.1 19.2 4.0 316. = 162.6 oct 0.453 0.174 0.619 18.11 13.7 21.6 11.7 301.	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204. nov 0.412 0.223 0.666 12.90 23.1 16.1 5.4 222.	0.497 0.230 0.879 4.32 2.8 4.5 -5.1 146. dec 0.405 0.226 0.823 11.48 8.6 11.0 0.6 188.
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) VIRGINIA - month	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK jan 0.477 0.246 0.728 12.52 14.5 10.1 0.1 192. RICHMOND jan	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(d feb 0.470 0.289 0.757 11.33 18.0 0.1 294. alat(d feb	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg) = 36.90 mar 0.429 0.316 0.744 10.82 11.7 14.0 3.7 358. deg) = 37.50 mar	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22 apr 0.442 0.301 0.782 8.41 18.8 20.0 8.8 434. yrs= 3	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570. elev may 0.445 0.242 0.727 12.12 38.9 25.2 14.3 528. 3. ele	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621. (m)= jun 0.435 0.228 0.645 15.67 25.1 29.4 19.1 545. ev (m)= jun	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620. 6.7 tp05 jul 0.535 0.266 0.704 16.43 50.5 31.1 20.9 530. 50.0 tp05	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551. (mm) = 82.5 aug 0.484 0.272 0.608 23.72 21.1 30.1 20.4 450. 5(mm) = 75. aug	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm) sep 0.478 0.184 0.519 26.52 31.0 27.2 17.9 395. 7 tp6(mm	oct 0.461 0.108 0.702 6.73 6.1 19.2 4.0 316. = 162.6 oct 0.453 0.174 0.619 18.11 13.7 21.6 11.7 301. 11 = 148.6 oct	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204. nov 0.412 0.223 0.666 12.90 23.1 16.1 5.4 222.	0.497 0.230 0.879 4.32 2.8 4.5 -5.1 146. dec 0.405 0.226 0.823 11.48 8.6 11.0 0.6 188.
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) VIRGINIA - month	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK jan 0.477 0.246 0.728 12.52 14.5 10.1 0.1 192. RICHMOND jan 0.474	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(d feb 0.470 0.289 0.757 11.33 18.0 10.6 0.1 294. alat(feb 0.446	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg) = 36.90 mar 0.429 0.316 0.744 10.82 11.7 14.0 3.7 358. deg) = 37.50 mar 0.460	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22 apr 0.442 0.301 0.782 8.41 18.8 20.0 8.8 434. yrs= 3 apr 0.477	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570. elev may 0.445 0.242 0.727 12.12 38.9 25.2 14.3 528.3 ele	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621. (m)= jun 0.435 0.228 0.645 15.67 25.1 29.4 19.1 545. ev (m)= jun 0.472	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620. 6.7 tp05: jul 0.535 0.266 0.704 16.43 50.5 31.1 20.9 530. 50.0 tp0!	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551. (mm)= 82.5 aug 0.484 0.272 0.608 23.72 21.1 30.1 20.4 450.5 5(mm)= 75. aug	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm) sep 0.478 0.184 0.519 26.52 31.0 27.2 17.9 395. 7 tp6(nm sep 0.424	oct 0.461 0.108 0.702 6.73 6.1 19.2 4.0 316. = 162.6 oct 0.453 0.174 0.619 18.11 13.7 21.6 11.7 301. 1)= 148.6 oct 0.382	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204. nov 0.412 0.223 0.666 12.90 23.1 16.1 5.4 222. nov 0.396	0.497 0.230 0.879 4.32 2.8 4.5 -5.1 146. dec 0.405 0.226 0.823 11.48 8.6 11.0 0.6 188. dec 0.402
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK jan 0.477 0.246 0.728 12.52 14.5 10.1 0.1 192. RICHMOND jan 0.474 0.252	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(d feb 0.470 0.289 0.757 11.33 18.0 10.6 0.1 294. alat(d feb	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg)= 36.90 mar 0.429 0.316 0.744 10.82 11.7 14.0 3.7 358. deg)= 37.50 mar 0.460 0.284	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22 apr 0.442 0.301 0.782 8.41 18.8 20.0 8.8 434. yrs= 3 apr 0.477 0.253	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570. elev may 0.445 0.242 0.727 12.12 38.9 25.2 14.3 528. a. ele may 0.490 0.243	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621. (m)= jun 0.435 0.228 0.645 15.67 25.1 29.4 19.1 545. ev (m)= jun 0.472 0.226	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620. 6.7 tp05: jul 0.535 0.266 0.704 16.43 50.5 31.1 20.9 530. 50.0 tp0! jul 0.448 0.271	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551. (mm)= 82.5 aug 0.484 0.272 0.608 23.72 21.1 30.1 20.4 40.5 (mm)= 75. aug 0.472 0.249	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm) sep 0.478 0.519 26.52 31.0 27.2 17.9 395. 7 tp6(mm	oct 0.461 0.108 0.702 6.73 6.1 19.2 4.0 316. = 162.6 oct 0.453 0.174 0.619 18.11 13.7 21.6 11.7 301. 11.8.6 oct 0.382 0.172	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204. nov 0.412 0.223 0.666 12.90 23.1 16.1 5.4 222. nov 0.396 0.237	0.497 0.230 0.879 4.32 2.8 4.5 -5.1 146. dec 0.405 0.226 0.823 11.48 8.6 11.0 0.6 188. dec 0.402
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m) alfg(m)	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK jan 0.477 0.246 0.728 12.52 14.5 10.1 0.1 192. RICHMOND jan 0.474 0.252 0.770	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(d feb 0.470 0.289 0.757 11.33 18.0 10.6 0.1 294. alat(d feb	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg)= 36.90 mar 0.429 0.316 0.744 10.82 11.7 14.0 3.7 358. deg)= 37.50 mar 0.460 0.284 0.816	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22 apr 0.442 0.301 0.782 8.41 18.8 20.0 8.8 434. yrs= 3 apr 0.477 0.253 0.825	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570. elev may 0.445 0.727 12.12 38.9 25.2 14.3 528. 3. ele may 0.490 0.243 0.734	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621. (m)= jun 0.435 0.228 0.645 15.67 25.1 29.4 19.1 545. ev (m)= jun 0.472 0.226 0.646	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620. 6.7 tp05; jul 0.535 0.266 0.704 16.43 50.5 31.1 20.9 530. tp0; jul 0.448 0.271	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551. (mm)= 82.5 aug 0.484 0.272 0.608 23.72 21.1 30.1 20.4 450. 5(mm)= 75. aug 0.472 0.249 0.607	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm) sep 0.478 0.184 0.519 26.52 31.0 27.2 17.9 395. 7 tp6(mm sep 0.424 0.187 0.642	oct 0.461 0.108 0.702 6.73 6.1 19.2 4.0 316. = 162.6 oct 0.453 0.174 0.619 18.11 13.7 21.6 11.7 301. 11.7 301. 12.6 oct 0.382 0.172 0.623	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204. nov 0.412 0.223 0.666 12.90 23.1 16.1 5.4 222. nov 0.396 0.237 0.620	0.497 0.230 0.879 4.32 2.8 4.5 -5.1 146. dec 0.405 0.226 0.823 11.48 8.6 11.0 0.6 188. dec 0.402 0.215 0.751
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m) alfg(m) betg(m) prw1(m) alfg(m) prw1(m) alfg(m) betg(m)	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK jan 0.477 0.246 0.728 12.52 14.5 10.1 0.1 192. RICHMOND jan 0.474 0.252 0.770 9.50	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(d feb 0.470 0.289 0.757 11.33 18.0 0.1 294. alat(d feb 0.446 0.266 0.843 10.95	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg)= 36.90 mar 0.429 0.316 0.744 10.82 11.7 14.0 3.7 358. deg)= 37.50 mar 0.460 0.284 0.816 9.98	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22 apr 0.442 0.301 0.782 8.41 18.8 20.0 8.8 434. yrs= 3 apr 0.477 0.253 0.825 8.97	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570. elev may 0.445 0.242 0.727 12.12 38.9 25.2 14.3 528. 3. ele may 0.490 0.243 0.734 10.64	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621. (m)= jun 0.435 0.228 0.645 15.67 25.1 29.4 19.1 545. EV (m)= jun 0.472 0.472 0.646 16.28	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620. 6.7 tp05 jul 0.535 0.266 0.704 16.43 50.5 31.1 20.9 530. 50.0 tp0! jul 0.448 0.271 0.642 20.37	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551. (mm)= 82.5 aug 0.484 0.272 0.608 23.72 21.1 30.1 20.4 450. 5(mm)= 75. aug 0.472 0.607 22.38	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm) sep 0.478 0.184 0.519 26.52 31.0 27.2 17.9 395. 7 tp6(mm sep 0.424 0.187 0.642 16.79	oct 0.461 0.108 0.702 6.73 6.1 19.2 4.0 316. = 162.6 oct 0.453 0.174 0.619 18.11 13.7 21.6 11.7 301. 11.7 301. 11.7 301. 0.382 0.172 0.623 18.87	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204. nov 0.412 0.223 0.666 12.90 23.1 16.1 5.4 222. nov 0.396 0.237 0.620 16.31	0.497 0.230 0.879 4.32 2.8 4.5 -5.1 146. dec 0.405 0.226 0.823 11.48 8.6 11.0 0.6 188. dec 0.402 0.215 0.751 14.05
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m) alfg(m) betg(m) prw1(m) alfg(m) prw1(m) alfg(m) prw1(m) alfg(m)	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK jan 0.477 0.246 0.728 12.52 14.5 10.1 0.1 192. RICHMOND jan 0.474 0.252 0.770 9.50 15.0	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(d feb 0.470 0.289 0.757 11.33 18.0 10.6 0.1 294. alat( feb 0.446 0.266 0.843 10.95	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg)= 36.90 mar 0.429 0.316 0.744 10.82 11.7 14.0 3.7 358. deg)= 37.50 mar 0.460 0.284 0.816 9.98 13.2	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22 apr 0.442 0.301 0.782 8.41 18.8 20.0 8.8 434. yrs= 3 apr 0.477 0.253 0.825 8.97 13.2	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570. elev may 0.445 0.242 0.727 12.12 38.9 25.2 14.3 528. 3. ele may 0.490 0.243 0.734 10.64 24.1	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621. (m)= jun 0.435 0.228 0.645 15.67 25.1 29.4 19.1 545. ev (m)= jun 0.472 0.226 0.646 16.28 34.0	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620. 6.7 tp05 jul 0.535 0.266 0.704 16.43 50.5 31.1 20.9 530. 50.0 tp0! jul 0.448 0.271 0.448	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551. (mm)= 82.5 aug 0.484 0.272 0.608 23.72 21.1 30.1 20.4 450. 5(mm)= 75. aug 0.472 0.472 0.249 0.607 22.38 31.0	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm) sep 0.478 0.184 0.519 26.52 31.0 27.2 17.9 395. 7 tp6(mm sep 0.424 0.187 0.642 16.79 18.8	oct 0.461 0.108 0.702 6.73 6.1 199.2 4.0 316. = 162.6 oct 0.453 0.174 0.619 18.11 13.7 21.6 11.7 301. 11.7 301. 0.382 0.172 0.623 18.87 16.5	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204. nov 0.412 0.223 0.666 12.90 23.1 16.1 5.4 222. nov 0.396 0.237 0.620 16.31 11.4	0.497 0.230 0.879 4.32 2.8 4.5 -5.1 146. dec 0.405 0.226 0.823 11.48 8.6 11.0 0.6 188. dec 0.402 0.215 0.751 14.05 9.1
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m) alfg(m) betg(m) complete (m) prw1(m) alfg(m) betg(m) prw1(m) alfg(m) betg(m) prw1(m) alfg(m) betg(m) prw1(m) alfg(m) betg(m) tamx(m)	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK jan 0.477 0.246 0.728 12.52 14.5 10.1 0.1 192. RICHMOND jan 0.474 0.252 0.770 9.50 15.0 9.1	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(d feb 0.470 0.289 0.757 11.33 18.0 10.6 0.1 294. alat(d feb 0.446 0.266 0.266 0.843 10.95 10.7	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg)= 36.90 mar 0.429 0.316 0.744 10.82 11.7 14.0 3.7 358. deg)= 37.50 mar 0.460 0.284 0.816 9.98 13.2 15.1	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22 apr 0.442 0.301 0.782 8.41 18.8 20.0 8.8 434. yrs= 3 apr 0.477 0.253 0.825 8.97 13.2 21.3	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570. elev may 0.445 0.242 0.727 12.12 38.9 25.2 14.3 528. 3. ele may 0.490 0.243 0.734 10.64 24.1 26.3	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621. (m)= jun 0.435 0.228 0.645 15.67 25.1 29.4 19.1 545. (w)= jun 0.472 0.226 0.646 16.648 34.0 30.4	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620. 6.7 tp05 jul 0.535 0.266 0.704 16.43 50.5 31.1 20.9 530. 50.0 tp0! jul 0.448 0.271 0.642 20.37 41.7 31.9	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551. (mm)= 82.5 aug 0.484 0.272 0.608 23.72 21.1 30.1 20.4 450. 5(mm)= 75. aug 0.472 0.472 0.249 0.607 22.38 31.0 30.3	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm) sep 0.478 0.184 0.519 26.52 31.0 27.2 17.9 395. 7 tp6(mm sep 0.424 0.187 0.642 16.79 18.8 27.7	oct 0.461 0.108 0.702 6.73 6.1 199.2 4.0 316. = 162.6 oct 0.453 0.174 0.619 18.11 13.7 21.6 11.7 301. 11.7 301. 0.382 0.172 0.623 18.87 16.5 21.4	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204. nov 0.412 0.223 0.666 12.90 23.1 16.1 5.4 222. nov 0.396 0.237 0.620 16.31 11.4	0.497 0.230 0.879 4.32 2.8 4.5 -5.1 146. dec 0.405 0.226 0.823 11.48 8.6 11.0 0.6 188. dec 0.402 0.215 0.751 14.05 9.1 9.9
month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VIRGINIA - month prw2(m) prw1(m) alfg(m) betg(m) prw1(m) alfg(m) prw1(m) alfg(m) prw1(m) alfg(m)	jan 0.479 0.226 0.854 4.19 4.3 2.2 -8.3 163. NORFOLK jan 0.477 0.246 0.728 12.52 14.5 10.1 0.1 192. RICHMOND jan 0.474 0.252 0.770 9.50 15.0	feb 0.397 0.263 0.881 4.29 3.8 5.9 -4.3 256. alat(d feb 0.470 0.289 0.757 11.33 18.0 10.6 0.1 294. alat( feb 0.446 0.266 0.843 10.95	mar 0.463 0.236 0.911 4.52 5.6 11.1 -1.0 354. eg)= 36.90 mar 0.429 0.316 0.744 10.82 11.7 14.0 3.7 358. deg)= 37.50 mar 0.460 0.284 0.816 9.98 13.2	apr 0.525 0.239 0.799 7.01 6.6 17.1 3.0 479. yrs= 22 apr 0.442 0.301 0.782 8.41 18.8 20.0 8.8 434. yrs= 3 apr 0.477 0.253 0.825 8.97 13.2	may 0.487 0.165 0.853 5.23 4.8 22.7 7.1 570. elev may 0.445 0.242 0.727 12.12 38.9 25.2 14.3 528. 3. ele may 0.490 0.243 0.734 10.64 24.1	jun 0.500 0.139 0.734 6.32 4.8 28.0 11.0 621. (m)= jun 0.435 0.228 0.645 15.67 25.1 29.4 19.1 545. ev (m)= jun 0.472 0.226 0.646 16.28 34.0	jul 0.315 0.104 0.635 7.59 7.9 33.5 16.0 620. 6.7 tp05 jul 0.535 0.266 0.704 16.43 50.5 31.1 20.9 530. 50.0 tp0! jul 0.448 0.271 0.448	aug 0.373 0.139 0.638 6.71 12.2 32.1 15.1 551. (mm)= 82.5 aug 0.484 0.272 0.608 23.72 21.1 30.1 20.4 450. 5(mm)= 75. aug 0.472 0.472 0.249 0.607 22.38 31.0	sep 0.389 0.111 0.696 5.56 15.7 26.3 9.4 446. tp6(mm) sep 0.478 0.184 0.519 26.52 31.0 27.2 17.9 395. 7 tp6(mm sep 0.424 0.187 0.642 16.79 18.8	oct 0.461 0.108 0.702 6.73 6.1 199.2 4.0 316. = 162.6 oct 0.453 0.174 0.619 18.11 13.7 21.6 11.7 301. 11.7 301. 0.382 0.172 0.623 18.87 16.5	nov 0.434 0.170 0.821 5.38 3.8 10.1 -1.9 204. nov 0.412 0.223 0.666 12.90 23.1 16.1 5.4 222. nov 0.396 0.237 0.620 16.31 11.4	0.497 0.230 0.879 4.32 2.8 4.5 -5.1 146. dec 0.405 0.226 0.823 11.48 8.6 11.0 0.6 188. dec 0.402 0.215 0.751 14.05 9.1

HACHTHOTON	- OLVHDIA	alae	(dos)= // (	07	27 01	01/ (2)-	57 0 +=05	(mm)= 7	)			
WASHINGTON month	ian	feb	(deg)= 46.9 mar			ev (m)= jun	57.9 tp05 jul	eug aug	, .	mm)= 104.		doo
prw2(m)	0.816	0.766	0.758	арг 0.698	may 0.586	0.542	0.489	0.571	sep 0.601	oct 0.707	nov 0.787	dec 0.788
prw1(m)	0.452	0.344	0.738	0.276	0.185	0.194	0.079	0.106	0.160	0.767	0.767	0.755
alfg(m)	0.848	0.862	0.998	0.917	0.998	0.796	0.998	0.753	0.848	0.863	0.800	0.455
betg(m)	12.24	9.96	6.71	5.99	4.34	4.93	3.78	6.65	7.34	10.64	13.46	11.73
ri(m)	4.6	5.3	3.6	6.1	12.7	14.2	9.7	10.4	8.6	7.6	9.1	7.1
tamx(m)	7.3	9.8	12.4	16.8	20.3	22.6	26.5	26.1	22.6	16.8	11.3	8.6
tamn(m)	-0.5	0.1	1.1	3.1	5.3	7.5	8.9	8.8	6.9	4.7	1.8	1.1
ra(m)	85.	167.	257.	432.	509.	487.	486.	436.	321.	205.	122.	77.
WASHINGTON	- SPOKANE	alat	(deg) = 47.6	63 yrs=	17. el	ev (m)=	718.4 tp05	(mm) = 1	9.0 tp6(	mm)= 48.3		
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.648	0.600	0.542	0.409	0.469	0.400	0.240	0.388	0.395	0.479	0.584	0.621
prw1(m)	0.361	0.269	0.239	0.225	0.202	0.200	0.099	0.121	0.154	0.184	0.278	0.386
alfg(m)	0.955	0.998	0.956	0.933	0.889	0.702	0.878	0.746	0.824	0.910	0.903	0.887
betg(m)	4.60	3.63	3.53	3.43	4.09	6.15	3.33	4.39	3.43	4.27	5.05	4.52
ri(m)	2.0	3.3	2.3	2.5	12.2	8.4	<b>13.</b> 0	6.3	11.9	4.6	2.8	3.3
tamx(m)	-0.3	3.0	8.3	14.8	20.7	23.6	29.8	28.3	23 <b>.7</b>	15.6	6.1	2.2
tamn(m)	-7.1	-5.3	-1.6	2.2	6.2	9.6	13.0	11.6	8.3	<b>3.</b> 3	-1.9	-4.3
ra(m)	119.	204.	321.	474.	563.	596.	665.	556.	404.	225.	131.	75.
WASHINGTON	- STAMPEDE		alat(deg)	)= 47.28	yrs= 21.		(m)=1206.4	tp05(	mm) = 21.6	tp6(mm):	= 101.6	
month	jan	feb	mar	арг	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.867	0.822	0.807	0.774	0.684	0.714	0.530	0.649	0.638	0.723	0.807	0.858
prw1(m)	0.457	0.418	0.388	0.379	0.323	0.284	0.161	0.209	0.251	0.330	0.361	0.442
alfg(m)	0.858	0.772	0.889	0.809	0.846	0.785	0.822	0.775	0.701	0.874	0.824	0.797
betg(m)	17.73	17.27	12.34	11.63	7.24	7.80	5.51	7.16	13.79	15.14	19.38	19.68
ri(m)	5.8	5.1	5.3	4.3	4.1	4.6	9.4	17.3	8.1	5.8	6.9	10.2
tamx(m)	-2.5	-0.5	1.6	5.9	10.6	13.7	18.6	18.1	15.4	8.9	2.1	-0.6
tamn(m)	-6.9	-5.5 1 <b>3</b> 9.	-3.8	-0.9	2.6	5.0	8.3	8.2	6.7	2.6	-2.7	-5.0
ra(m)	75.	130.	265.	403.	503.	511.	566.	452.	324.	188.	104.	64.
WASHINGTON	- WALLA WA	LLA	alat(deg)=	46.03	yrs= 50.	elev (	m)= 289.3	tp05(mm	)= 25.1	tp6(mm)=	63.5	
WASHINGTON month	- WALLA WA	LLA feb	alat(deg)≖ mar	46.03 apr	yrs≖ 50. may	elev ( jun	m)= 289.3 jul	tp05(mm aug	r)= 25.1 sep	tp6(mm)= oct	63.5 nov	dec
WASHINGTON month prw2(m)	- WALLA WA jan 0.592	feb 0.560	alat(deg)= mar 0.486	46.03 apr 0.457	yrs≖ 50. may 0.451	elev ( jun 0.336	m)= 289.3 jul 0.306	tp05(mm aug 0.328	sep 0.415	tp6(mm)= oct 0.454	63.5 nov 0.539	dec 0.548
WASHINGTON month prw2(m) prw1(m)	- WALLA WAR jan 0.592 0.377	feb 0.560 0.262	alat(deg)= mar 0.486 0.259	46.03 apr 0.457 0.240	yrs≖ 50. may 0.451 0.197	elev ( jun 0.336 0.181	m)= 289.3 jul 0.306 0.054	tp05(mm aug 0.328 0.085	sep 0.415 0.119	tp6(mm)= oct 0.454 0.200	63.5 nov 0.539 0.304	dec 0.548 0.370
WASHINGTON month prw2(m) prw1(m) alfg(m)	- WALLA WAI jan 0.592 0.377 0.878	feb 0.560 0.262 0.880	alat(deg)= mar 0.486 0.259 0.897	46.03 apr 0.457 0.240 0.878	yrs= 50. may 0.451 0.197 0.766	elev ( jun 0.336 0.181 0.780	m)= 289.3 jul 0.306 0.054 0.671	tp05(mm aug 0.328 0.085 0.778	sep 0.415 0.119 0.860	tp6(mm)= oct 0.454 0.200 0.702	63.5 nov 0.539 0.304 0.855	dec 0.548 0.370 0.822
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m)	- WALLA WAR jan 0.592 0.377 0.878 4.42	feb 0.560 0.262 0.880 3.71	alat(deg)= mar 0.486 0.259 0.897 3.76	46.03 apr 0.457 0.240 0.878 4.24	yrs= 50. may 0.451 0.197 0.766 5.82	elev ( jun 0.336 0.181 0.780 5.00	m)= 289.3 jul 0.306 0.054 0.671 5.28	tp05(mm aug 0.328 0.085 0.778 5.11	sep 0.415 0.119 0.860 4.98	tp6(mm)= oct 0.454 0.200 0.702 5.97	63.5 nov 0.539 0.304 0.855 4.57	dec 0.548 0.370 0.822 4.42
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8	feb 0.560 0.262 0.880 3.71 3.0	alat(deg)= mar 0.486 0.259 0.897 3.76 3.6	46.03 apr 0.457 0.240 0.878 4.24 3.6	yrs= 50. may 0.451 0.197 0.766 5.82 3.6	elev ( jun 0.336 0.181 0.780 5.00 3.0	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1	tp05(mm aug 0.328 0.085 0.778 5.11 8.6	sep 0.415 0.119 0.860 4.98 2.5	tp6(mm)= oct 0.454 0.200 0.702 5.97 3.0	63.5 nov 0.539 0.304 0.855 4.57 2.5	dec 0.548 0.370 0.822 4.42 4.3
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9	feb 0.560 0.262 0.880 3.71 3.0 7.2	alat(deg)= mar 0.486 0.259 0.897 3.76 3.6 12.4	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2	elev ( jun 0.336 0.181 0.780 5.00 3.0 25.9	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8	tp05(mm aug 0.328 0.085 0.778 5.11 8.6 30.3	sep 0.415 0.119 0.860 4.98 2.5 25.5	tp6(mm)= oct 0.454 0.200 0.702 5.97 3.0 18.1	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3	dec 0.548 0.370 0.822 4.42 4.3 6.6
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1	alat(deg)= mar 0.486 0.259 0.897 3.76 3.6 12.4 3.1	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9	elev ( jun 0.336 0.181 0.780 5.00 3.0 25.9 13.1	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1	0.415 0.415 0.119 0.860 4.98 2.5 25.5	tp6(mm)=	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1	dec 0.548 0.370 0.822 4.42 4.3 6.6
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121.	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205.	alat(deg)= mar 0.486 0.259 0.897 3.76 3.6 12.4 3.1 304.	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462.	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558.	elev ( jun 0.336 0.181 0.780 5.00 3.0 25.9 13.1 653.	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699.	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1 562.	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410.	tp6(mm) = oct 0.454 0.200 0.702 5.97 3.0 18.1 7.6 245.	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146.	dec 0.548 0.370 0.822 4.42 4.3 6.6
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) WEST VIRGINI	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205.	alat(deg)= mar 0.486 0.259 0.897 3.76 3.6 12.4 3.1 304. alat(deg)=	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462.	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558. yrs= 73.	elev ( jun 0.336 0.181 0.780 5.00 3.0 25.9 13.1 653. elev	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1 562.	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410. m)= 59.7	tp6(mm)=	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146.	dec 0.548 0.370 0.822 4.42 4.3 6.6
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) WEST VIRGINI month	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE: jan	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205. STON feb	alat(deg)= mar 0.486 0.259 0.897 3.76 3.6 12.4 3.1 304.	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462.	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558.	elev ( jun 0.336 0.181 0.780 5.00 3.0 25.9 13.1 653.	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699. (m)= 289.6	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1 562. tp05 (mm	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410.	tp6(mm)=	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146. 106.7	dec 0.548 0.370 0.822 4.42 4.3 6.6 -0.2 96.
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) WEST VIRGINI	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205.	alat(deg)=     mar     0.486     0.259     0.897     3.76     3.6     12.4     3.1     304. alat(deg)=     mar	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462. = 38.37 apr	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558. yrs= 73. may	elev ( jun 0.336 0.181 0.780 5.00 3.0 25.9 13.1 653. elev jun	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699. (m)= 289.6 jul	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1 562. tp05 (m	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410. m)= 59.7 sep	tp6(mm)=	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146. 106.7 nov	dec 0.548 0.370 0.822 4.42 4.3 6.6 -0.2 96.
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamxn(m) ra(m) WEST VIRGINI month prw2(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE: jan 0.541	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205. STON feb 0.551	alat(deg)=     mar     0.486     0.259     0.897     3.76     3.6     12.4     3.1     304. alat(deg)=     mar     0.577	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462. = 38.37 apr 0.548	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558. yrs= 73. may 0.550	elev ( jun 0.336 0.181 0.780 5.00 3.0 25.9 13.1 653. elev jun 0.500	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699. (m)= 289.6 jul 0.466	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1 562. tp05 (m aug 0.473	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410. m)= 59.7 sep 0.473	tp6(mm)=	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146. 106.7 nov 0.514	dec 0.548 0.370 0.822 4.42 4.3 6.6 -0.2 96. dec 0.521
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) ra(m) WEST VIRGINI month prw2(m) prw1(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE: jan 0.541 0.383	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205. STON feb 0.551 0.395	alat(deg)=     mar     0.486     0.259     0.897     3.76     3.6     12.4     3.1     304. alat(deg)=     mar     0.577     0.397	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462. = 38.37 apr 0.548 0.395	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558. yrs= 73. may 0.550 0.314	elev ( jun 0.336 0.181 0.780 5.00 3.0 25.9 13.1 653. elev jun 0.500 0.264	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699. (m)= 289.6 jul 0.466 0.369	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1 562. tp05 (m aug 0.473 0.249	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410. m)= 59.7 sep 0.473 0.213	tp6(mm)=	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146. 106.7 nov 0.514 0.279	dec 0.548 0.370 0.822 4.42 4.3 6.6 -0.2 96. dec 0.521 0.384
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) WEST VIRGINI month prw2(m) prw1(m) alfg(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE: jan 0.541 0.383 0.741	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205. STON feb 0.551 0.395 0.730	alat(deg)=     mar     0.486     0.259     0.897     3.76     3.6     12.4     3.1     304. alat(deg)=     mar     0.577     0.397     0.761	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462. = 38.37 apr 0.548 0.395 0.828	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558. yrs= 73. may 0.550 0.314 0.747	elev ( jun 0.336 0.181 0.780 5.00 3.0 25.9 13.1 653. elev jun 0.500 0.264 0.827	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699. (m)= 289.6 jul 0.466 0.369 0.680	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1 562. tp05 (m aug 0.473 0.249 0.683	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410. m)= 59.7 sep 0.473 0.213 0.780	tp6(mm) = oct 0.454 0.200 0.702 5.97 3.0 18.1 7.6 245. tp6(mm) = oct 0.464 0.222 0.693	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146. 106.7 nov 0.514 0.279 0.850	dec 0.548 0.370 0.822 4.42 4.3 6.6 -0.2 96. dec 0.521 0.384 0.746
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) WEST VIRGINI month prw2(m) prw1(m) alfg(m) betg(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE: jan 0.541 0.383 0.741 8.00	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205. STON feb 0.551 0.395 0.730 8.74	alat(deg)=     mar     0.486     0.259     0.897     3.76     3.6     12.4     3.1     304.     alat(deg)=     mar     0.577     0.397     0.761     9.25	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462. = 38.37 apr 0.548 0.395 0.828 7.72 13.2 20.1	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558. yrs= 73. may 0.550 0.314 0.747 9.27	elev ( jun 0.336 0.181 0.780 5.00 3.0 25.9 13.1 653. elev jun 0.500 0.264 0.827 8.92 30.5 29.2	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699. (m)= 289.6 jul 0.466 0.369 0.680 15.19	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1 562. tp05 (m aug 0.473 0.249 0.683 13.89	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410. m)= 59.7 sep 0.473 0.213 0.780 10.11	tp6(mm)=	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146. 106.7 nov 0.514 0.279 0.850 7.34	dec 0.548 0.370 0.822 4.42 4.3 6.6 -0.2 96. dec 0.521 0.384 0.746 7.62
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) WEST VIRGINI month prw2(m) prw1(m) alfg(m) betg(m) ri(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE: jan 0.541 0.383 0.741 8.00 6.6	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205. STON feb 0.551 0.395 0.730 8.74 6.6	alat(deg)=     mar     0.486     0.259     0.897     3.76     3.6     12.4     3.1     304. alat(deg)=     mar     0.577     0.397     0.761     9.25     17.0	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462. = 38.37 apr 0.548 0.395 0.828 7.72 13.2	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558. yrs= 73. may 0.550 0.314 0.747 9.27 19.3	elev ( jun 0.336 0.181 0.780 5.00 3.0 25.9 13.1 653. elev jun 0.500 0.264 0.827 8.92 30.5	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699. (m)= 289.6 jul 0.466 0.369 0.680 15.19 40.6	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1 562. tp05 (m aug 0.473 0.249 0.683 13.89 50.5 29.7 16.5	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410. m)= 59.7 sep 0.473 0.213 0.780 10.11 18.8	tp6(mm)=	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146. 106.7 nov 0.514 0.279 0.850 7.34 10.2 13.7 1.7	dec 0.548 0.370 0.822 4.42 4.3 6.6 -0.2 96. dec 0.521 0.384 0.746 7.62 6.3 8.6 -1.9
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) WEST VIRGINI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE: jan 0.541 0.383 0.741 8.00 6.6 7.9	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205. STON feb 0.551 0.395 0.730 8.74 6.6 9.3 -2.4 254.	alat(deg)= mar 0.486 0.259 0.897 3.76 3.6 12.4 3.1 304. alat(deg)= mar 0.577 0.397 0.761 9.25 17.0 13.7 0.6 349.	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462. = 38.37 apr 0.548 0.395 0.828 7.72 13.2 20.1 5.4 472.	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558. yrs= 73. may 0.550 0.314 0.747 9.27 19.3 25.0 10.2 573.	elev ( jun 0.336 0.181 0.780 5.00 3.0 25.9 13.1 653. elev jun 0.500 0.264 0.827 8.92 30.5 29.2 15.3 620.	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699. (m)= 289.6 jul 0.466 0.369 0.680 15.19 40.6 30.7 17.5 609.	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1 562. tp05 (m aug 0.473 0.249 0.683 13.89 50.5 553.	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410. m)= 59.7 sep 0.473 0.213 0.780 10.11 18.8 27.4 13.2 488.	tp6(mm)=	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146. 106.7 nov 0.514 0.279 0.850 7.34 10.2 13.7 1.7 202.	dec 0.548 0.370 0.822 4.42 4.3 6.6 -0.2 96. dec 0.521 0.384 0.746 7.62 6.3 8.6
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) WEST VIRGINI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE jan 0.541 0.383 0.741 8.00 6.6 7.9 -3.1 174.	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205. STON feb 0.551 0.395 0.730 8.74 6.6 9.3 -2.4 254.	alat(deg)=     mar     0.486     0.259     0.897     3.76     3.6     12.4     3.1     304.     alat(deg)=     mar     0.577     0.397     0.761     9.25     17.0     13.7     0.6	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462. = 38.37 apr 0.548 0.395 0.828 7.72 13.2 20.1 5.4 472.	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558. yrs= 73. may 0.550 0.314 0.747 9.27 19.3 25.0 10.2 573.	elev ( jun 0.336 0.181 0.780 5.00 3.0 25.9 13.1 653. elev jun 0.500 0.264 0.827 8.92 30.5 29.2 15.3 620.	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699. (m)= 289.6 jul 0.466 0.369 0.680 15.19 40.6 30.7 17.5	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1 562. tp05 (m aug 0.473 0.249 0.683 13.89 50.5 553.	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410. m)= 59.7 sep 0.473 0.213 0.780 10.11 18.8 27.4 13.2 488.	tp6(mm)=	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146. 106.7 nov 0.514 0.279 0.850 7.34 10.2 13.7 1.7 202.	dec 0.548 0.370 0.822 4.42 4.3 6.6 -0.2 96. dec 0.521 0.384 0.746 7.62 6.3 8.6 -1.9
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) ra(m) WEST VIRGINI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) ra(m) WISCONSIN month	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE: jan 0.541 0.383 0.741 8.00 6.6 7.9 -3.1 174. GREEN BAY jan	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205. STON feb 0.551 0.395 0.730 8.74 6.6 9.3 -2.4 254. ala feb	alat(deg)=     mar     0.486     0.259     0.897     3.76     3.6     12.4     3.1     304. alat(deg)=     mar     0.577     0.397     0.761     9.25     17.0     13.7     0.6     349. t(deg)= 44.	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462. = 38.37 apr 0.548 0.395 0.828 7.72 13.2 20.1 5.4 472.	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558. yrs= 73. may 0.550 0.314 0.747 9.27 19.3 25.0 10.2 573. = 8. e	elev ( jun 0.336 0.181 0.780 5.00 3.0 25.9 13.1 653. elev jun 0.500 0.264 0.827 8.92 30.5 29.2 15.3 620. lev (m)=	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699. (m)= 289.6 jul 0.466 0.369 0.680 15.19 40.6 30.7 17.5 609. 210.0 tp0	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1 562. tp05 (m aug 0.473 0.249 0.683 13.89 50.5 29.7 16.5 553.5 (mm) = aug	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410. m)= 59.7 sep 0.473 0.213 0.780 10.11 18.8 27.4 13.2 488. 50.5 tp66 sep	tp6(mm) = oct 0.454 0.200 0.702 5.97 3.0 18.1 7.6 245. tp6(mm) = oct 0.464 0.222 0.693 9.65 15.2 21.4 6.8 300. (mm) = 96. oct	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146. 106.7 nov 0.514 0.279 0.850 7.34 10.2 13.7 1.7 202. 5	dec 0.548 0.370 0.822 4.42 4.3 6.6 -0.2 96. dec 0.521 0.384 0.746 7.62 6.3 8.6 -1.9 164. dec
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) ra(m) WEST VIRGINI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) ra(m) WISCONSIN month prw2(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE: jan 0.541 0.383 0.741 8.00 6.6 7.9 -3.1 174. GREEN BAY jan 0.400	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205. STON feb 0.551 0.395 0.730 8.74 6.6 9.3 -2.4 254. ala feb 0.393	alat(deg)=     mar     0.486     0.259     0.897     3.76     3.6     12.4     3.1     304.     alat(deg)=     mar     0.577     0.397     0.761     9.25     17.0     13.7     0.6     349. t(deg)= 44.     mar     0.495	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462. = 38.37 apr 0.548 0.395 0.828 7.72 13.2 20.1 5.4 472.	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558. yrs= 73. may 0.550 0.314 0.747 9.27 19.3 25.0 10.2 5773. = 8. e may 0.471	elev ( jun 0.336 0.181 0.780 5.00 3.0 25.9 13.1 653. elev jun 0.500 0.264 0.827 8.92 30.5 29.2 15.3 620. lev (m)= jun 0.487	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699. (m)= 289.6 jul 0.466 0.369 0.680 15.19 40.6 30.7 17.5 609. 210.0 tp0 jul 0.398	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1 562. tp05 (m aug 0.473 0.249 0.683 13.89 50.5 29.7 16.5 553.5 (mm) = aug 0.405	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410. m)= 59.7 sep 0.473 0.213 0.780 10.11 18.8 27.4 13.2 488. 50.5 tp66 sep 0.426	tp6(mm) = oct 0.454 0.200 0.702 5.97 3.0 18.1 7.6 245. tp6(mm) = oct 0.464 0.222 0.693 9.65 15.2 21.4 6.8 300. (mm) = 96. oct 0.467	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146. 106.7 nov 0.514 0.279 0.850 7.34 10.2 13.7 1.7 202. 5 nov 0.425	dec 0.548 0.370 0.822 4.42 4.3 6.6 -0.2 96. dec 0.521 0.384 0.746 7.62 6.3 8.6 -1.9 164. dec 0.420
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) WEST VIRGINI month prw2(m) prw1(m) betg(m) ri(m) tamx(m) tamx(m) tamx(m) tamn(m) ramn(m) ronth prw2(m) Prw2(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE jan 0.541 0.383 0.741 8.00 6.6 7.9 -3.1 174. GREEN BAY jan 0.400 0.282	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205. STON feb 0.551 0.395 0.730 8.74 6.6 9.3 -2.4 254. ala feb 0.393 0.217	alat(deg)=     mar     0.486     0.259     0.897     3.76     3.6     12.4     3.1     304. alat(deg)=     mar     0.577     0.397     0.761     9.25     17.0     13.7     0.6     349. t(deg)= 44.     mar     0.495     0.262	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462. = 38.37 apr 0.548 0.395 0.828 7.72 13.2 20.1 5.4 47248 yrs apr 0.493 0.271	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558. yrs= 73. may 0.550 0.314 0.747 9.27 19.3 25.0 10.2 573. = 8. e may 0.471 0.339	elev (     jun 0.336 0.181 0.780 5.00 3.0 25.9 13.1 653. elev jun 0.500 0.264 0.827 8.92 30.5 29.2 15.3 620. lev (m)= jun 0.487 0.298	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699. (m)= 289.6 jul 0.466 0.369 0.680 15.19 40.6 30.7 17.5 609. 210.0 tp0 jul 0.398 0.273	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1 562. tp05 (m aug 0.473 0.249 0.683 13.89 50.5 29.7 16.5 55 (mm) = aug 0.405 0.267	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410. m)= 59.7 sep 0.473 0.780 10.11 18.8 27.4 13.2 488. 50.5 tp6 sep 0.426 0.293	tp6(mm)=	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146. 106.7 nov 0.514 0.279 0.850 7.34 10.2 13.7 1.7 202. 5 nov 0.425 0.223	dec 0.548 0.370 0.822 4.42 4.3 6.6 -0.2 96. dec 0.521 0.384 0.746 7.62 6.3 8.6 -1.9 164. dec 0.420 0.286
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamn(m) ra(m) WEST VIRGINI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamx(m) tamn(m) ra(m) Prw2(m) prw1(m) alfg(m) alfg(m) prw2(m) prw1(m) alfg(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE jan 0.541 0.383 0.741 8.00 6.6 7.9 -3.1 174. GREEN BAY jan 0.400 0.282 0.821	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205. STON feb 0.551 0.395 0.730 8.74 6.6 9.3 -2.4 254. ala feb 0.393 0.217 0.822	alat(deg)=     mar     0.486     0.259     0.897     3.76     3.6     12.4     3.1     304.     alat(deg)=     mar     0.577     0.397     0.761     9.25     17.0     13.7     0.6     349. t(deg)= 44.     mar     0.495     0.262     0.808	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462.= 38.37 apr 0.548 0.395 0.828 7.72 13.2 20.1 5.4 472. 48 yrs apr 0.493 0.271 0.781	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558. yrs= 73. may 0.550 0.314 0.747 9.27 19.3 25.0 10.2 573. 8. e may 0.471 0.339 0.718	elev (     jun 0.336 0.181 0.780 5.00 3.0 25.9 13.1 653. elev jun 0.500 0.264 0.827 8.92 30.5 29.2 15.3 620. lev (m)= jun 0.487 0.298 0.734	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699. (m)= 289.6 jul 0.466 0.369 0.680 15.19 40.6 30.7 17.5 609. 210.0 tp0 jul 0.398 0.273 0.688	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1 562. tp05 (m aug 0.473 0.249 0.683 13.89 50.5 29.7 16.5 553.5 (mm)= aug 0.405 0.267 0.787	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410. m)= 59.7 sep 0.473 0.213 0.780 10.11 18.8 27.4 13.2 488. 50.5 tp6 sep 0.426 0.293 0.728	tp6(mm) = oct 0.454 0.200 0.702 5.97 3.0 18.1 7.6 245. tp6(mm) = oct 0.464 0.222 0.693 9.65 15.2 21.4 6.8 300. (mm) = 96. oct 0.467 0.196 0.724	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146. 106.7 nov 0.514 0.279 0.850 7.34 10.2 13.7 1.7 202. 5 nov 0.425 0.223 0.754	dec 0.548 0.370 0.822 4.42 4.3 6.6 -0.2 96. dec 0.521 0.384 0.746 7.62 6.3 8.6 -1.9 164. dec 0.420 0.286 0.825
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) tamx(m) tamn(m) ra(m) WEST VIRGINI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) VISCONSIN month prw2(m) prw1(m) betg(m) prw1(m) betg(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE jan 0.541 0.383 0.741 8.00 6.6 7.9 -3.1 174. GREEN BAY jan 0.400 0.282 0.821 3.30	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205. STON feb 0.551 0.395 0.730 8.74 6.6 9.3 -2.4 254. ala feb 0.393 0.217 0.822 4.04	alat(deg)=     mar     0.486     0.259     0.897     3.76     3.6     12.4     3.1     304.     alat(deg)=     mar     0.577     0.397     0.761     9.25     17.0     13.7     0.6     349. t(deg)= 44.     mar     0.495     0.262     0.808     4.57	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462.= 38.37 apr 0.548 0.395 0.828 7.72 13.2 20.1 5.4 472. 472. 478 yrs apr 0.493 0.271 0.781 8.79	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558. yrs= 73. may 0.550 0.314 0.747 9.27 19.3 25.0 10.2 573. = 8. e may 0.471 0.339 0.718 9.19	elev (     jun 0.336 0.181 0.780 5.00 3.0 25.9 13.1 653. elev jun 0.500 0.264 0.827 8.92 30.5 29.2 15.3 620. lev (m)= jun 0.487 0.298 0.734 10.34	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699. (m)= 289.6 jul 0.466 0.369 0.680 15.19 40.6 30.7 17.5 609. 210.0 tp0 jul 0.398 0.273 0.688 12.93	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1 562. tp05 (m aug 0.473 0.249 0.683 13.89 50.5 29.7 16.5 553.5 (mm) = aug 0.405 0.267 0.787 8.69	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410. m)= 59.7 sep 0.473 0.213 0.780 10.11 18.8 27.4 13.2 488. 50.5 tp6 sep 0.426 0.293 0.728 11.53	tp6(mm)=	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146. 106.7 nov 0.514 0.279 0.850 7.34 10.2 13.7 1.7 202. 5 nov 0.425 0.223 0.754 6.40	dec 0.548 0.370 0.822 4.42 4.3 6.6 -0.2 96. dec 0.521 0.384 0.746 7.62 6.3 8.6 -1.9 164. dec 0.420 0.286 0.825 3.81
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) WEST VIRGINI month prw2(m) prw1(m) alfg(m) tamx(m) tamn(m) ra(m) WISCONSIN month prw2(m) prw1(m) alfg(m) prw1(m) alfg(m) prw1(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE jan 0.541 0.383 0.741 8.00 6.6 7.9 -3.1 174. GREEN BAY jan 0.400 0.282 0.821 3.30 5.3	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205. STON feb 0.551 0.395 0.730 8.74 6.6 9.3 -2.4 254. ala feb 0.393 0.217 0.822 4.04 3.8	alat(deg)=     mar     0.486     0.259     0.897     3.76     3.6     12.4     3.1     304.     alat(deg)=     mar     0.577     0.397     0.761     9.25     17.0     13.7     0.6     349. t(deg)= 44.     mar     0.495     0.262     0.808     4.57     4.6	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462.= 38.37 apr 0.548 0.395 0.828 7.72 13.2 20.1 5.4 472. 472. 48 yrs apr 0.493 0.271 0.781 8.79 9.4	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558. yrs= 73. may 0.550 0.314 0.747 9.27 19.3 25.0 10.2 573. = 8. e may 0.471 0.3339 0.471 0.3339 0.718 9.19 10.7	elev (     jun     0.336     0.181     0.780     5.00     3.0     25.9     13.1     653.     elev     jun     0.500     0.264     0.827     8.92     30.5     29.2     15.3     620. lev (m)=     jun     0.487     0.298     0.734     10.34     16.5	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699. (m)= 289.6 jul 0.466 0.369 0.680 15.19 40.6 30.7 17.5 609. 210.0 tp0 jul 0.398 0.273 0.688 12.93 16.3	tp05 (mm aug 0.328 0.085 0.781 8.6 30.3 16.1 562. tp05 (m aug 0.473 0.249 0.683 13.89 50.5 553.5 (mm) = aug 0.405 0.267 0.787 8.69 27.2	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410. m)= 59.7 sep 0.473 0.213 0.780 10.11 18.8 27.4 13.2 488. 50.5 tp6 0.293 0.728 11.53 24.9	tp6(mm)=	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146. 106.7 nov 0.514 0.279 0.850 7.34 10.2 13.7 1.7 202. 5 nov 0.425 0.223 0.754 6.40 7.4	dec 0.548 0.370 0.822 4.42 4.3 6.6 -0.2 96. dec 0.521 0.384 0.746 7.62 6.3 8.6 -1.9 164. dec 0.420 0.286 0.825 3.81 2.5
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) WEST VIRGINI month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) WISCONSIN month prw2(m) prw1(m) alfg(m) betg(m) prw1(m) alfg(m) alfg(m) betg(m) alfg(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE jan 0.541 0.383 0.741 8.00 6.6 7.9 -3.1 174. GREEN BAY jan 0.400 0.282 0.821 3.30 5.3 -4.2	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205. STON feb 0.551 0.395 0.730 8.74 6.6 9.3 -2.4 254. ala feb 0.393 0.217 0.822 4.04 3.8 -3.3	alat(deg)=     mar     0.486     0.259     0.897     3.76     3.6     12.4     3.1     304.     alat(deg)=     mar     0.577     0.397     0.761     9.25     17.0     13.7     0.6     349. t(deg)= 44.     mar     0.495     0.262     0.808     4.57     4.6     2.6	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462. = 38.37 apr 0.548 0.395 0.828 7.72 13.2 20.1 5.4 472. 4472. 448 yrs apr 0.493 0.271 0.781 8.79 9.4 10.9	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558. yrs= 73. may 0.550 0.314 0.747 9.27 19.3 25.0 10.2 573. = 8. may 0.471 0.339 0.471 0.339 0.718 9.19 10.7 18.4	elev (     jun     0.336     0.181     0.780     5.00     3.0     25.9     13.1     653.     elev     jun     0.500     0.264     0.827     8.92     30.5     29.2     15.3     620. lev (m)=     jun     0.487     0.298     0.734     10.34     16.5     24.0	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699. (m)= 289.6 jul 0.466 0.369 0.680 15.19 40.6 30.7 17.5 609. 210.0 tp0 jul 0.398 0.273 0.688 12.3 16.3 16.3 27.3	tp05 (mm aug 0.328 0.085 0.778 5.11 8.6 30.3 16.1 562. tp05 (m aug 0.473 0.249 0.683 13.89 50.5 29.7 16.5 553.5 (mm)= aug 0.405 0.267 0.787 8.69 27.2 25.8	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410. m)= 59.7 sep 0.473 0.213 0.780 10.11 18.8 27.4 13.2 488. 50.5 tp6 0.293 0.728 11.53 24.9 21.1	tp6(mm)=	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146. 106.7 nov 0.514 0.279 0.850 7.34 10.2 13.7 1.7 202. 5 nov 0.425 0.223 0.754 6.40 7.4 4.8	dec 0.548 0.370 0.822 4.42 4.3 6.6 -0.2 96. dec 0.521 0.384 0.746 7.62 6.3 8.6 -1.9 164. dec 0.420 0.286 0.825 3.81 2.5 -2.7
WASHINGTON month prw2(m) prw1(m) alfg(m) betg(m) ri(m) tamx(m) tamn(m) ra(m) WEST VIRGINI month prw2(m) prw1(m) alfg(m) tamx(m) tamn(m) ra(m) WISCONSIN month prw2(m) prw1(m) alfg(m) prw1(m) alfg(m) prw1(m)	- WALLA WAI jan 0.592 0.377 0.878 4.42 5.8 3.9 -2.6 121. A - CHARLE jan 0.541 0.383 0.741 8.00 6.6 7.9 -3.1 174. GREEN BAY jan 0.400 0.282 0.821 3.30 5.3	feb 0.560 0.262 0.880 3.71 3.0 7.2 -0.1 205. STON feb 0.551 0.395 0.730 8.74 6.6 9.3 -2.4 254. ala feb 0.393 0.217 0.822 4.04 3.8	alat(deg)=     mar     0.486     0.259     0.897     3.76     3.6     12.4     3.1     304.     alat(deg)=     mar     0.577     0.397     0.761     9.25     17.0     13.7     0.6     349. t(deg)= 44.     mar     0.495     0.262     0.808     4.57     4.6	46.03 apr 0.457 0.240 0.878 4.24 3.6 17.7 6.5 462.= 38.37 apr 0.548 0.395 0.828 7.72 13.2 20.1 5.4 472. 472. 48 yrs apr 0.493 0.271 0.781 8.79 9.4	yrs= 50. may 0.451 0.197 0.766 5.82 3.6 22.2 9.9 558. yrs= 73. may 0.550 0.314 0.747 9.27 19.3 25.0 10.2 573. = 8. e may 0.471 0.3339 0.471 0.3339 0.718 9.19 10.7	elev (     jun     0.336     0.181     0.780     5.00     3.0     25.9     13.1     653.     elev     jun     0.500     0.264     0.827     8.92     30.5     29.2     15.3     620. lev (m)=     jun     0.487     0.298     0.734     10.34     16.5	m)= 289.3 jul 0.306 0.054 0.671 5.28 6.1 31.8 17.1 699. (m)= 289.6 jul 0.466 0.369 0.680 15.19 40.6 30.7 17.5 609. 210.0 tp0 jul 0.398 0.273 0.688 12.93 16.3	tp05 (mm aug 0.328 0.085 0.781 8.6 30.3 16.1 562. tp05 (m aug 0.473 0.249 0.683 13.89 50.5 553.5 (mm) = aug 0.405 0.267 0.787 8.69 27.2	1)= 25.1 sep 0.415 0.119 0.860 4.98 2.5 25.5 12.3 410. m)= 59.7 sep 0.473 0.213 0.780 10.11 18.8 27.4 13.2 488. 50.5 tp6 0.293 0.728 11.53 24.9	tp6(mm)=	63.5 nov 0.539 0.304 0.855 4.57 2.5 9.3 2.1 146. 106.7 nov 0.514 0.279 0.850 7.34 10.2 13.7 1.7 202. 5 nov 0.425 0.223 0.754 6.40 7.4	dec 0.548 0.370 0.822 4.42 4.3 6.6 -0.2 96. dec 0.521 0.384 0.746 7.62 6.3 8.6 -1.9 164. dec 0.420 0.286 0.825 3.81 2.5

dec .788 .455 .851 1.73 7.1 8.6 1.1 77.

dec .621 .386 .887 4.52 3.3 2.2 -4.3 75.

dec .858 .442 .797 9.68 10.2 -0.6 -5.0 64.

dec 1.548 1.370 1.822 4.42 4.3 6.6 -0.2 96.

dec 1.521 1.384 1.746 7.62 6.3 8.6 -1.9

dec .420 .286 .825 3.81 2.5 -2.7 10.6 110.

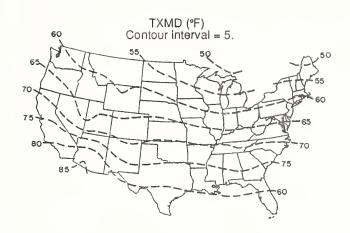
WISCONSIN -	LA CROSSE	alat	(deg)= 43	.87 yrs=	7.	elev (m)=	198.7	tp05(mm)= 5	9.7 tp6(m	m)= 111	.8	
month	jan	feb	mar	apr	may	jun	jut	aug	sep	oct	nov	dec
prw2(m)	0.320	0.410	0.425	C.406	0.515	0.448	0.359	0.412	0.465	0.403	0.414	0.413
prw1(m)	0.233	0.161	0.272	0.274	0.296	0.308	0.287	0.245	0.242	0.204	0.178	0.221
alfg(m)	0.838	0.778	0.723	0.791	0.862	0.728	0.732		0.722	0.793	0.662	0.874
betg(m)	3.23	4.01	6.71	9.19	9.04	14.07	14.10		13.11	8.76	7.87	3.33
ri(m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0
tamx(m)	-3.9	-1.9	4.8	13.8	21.0	26.1	29.5		22.7	16.3	5.8	-1.8
tamn(m)	-14.3	-12.3	-5.3	2.4	8.9	14.5	17.1		10.9	4.6	-3.3	-10.9
ra(m)	148.	220.	313.	394.	466.	514.	531.	452.	348.	241.	145.	115.
WISCONSIN -			leg)= 43.1			lev (m)= 2		05(mm)= 58.				1121
month	ian	feb	mar	apr	may	jun	iul		sep	oct	nov	dec
prw2(m)	0.392	0.409	0.468	0.487	0.522	0.452	0.380		0.432	0.471	0.419	0.455
prw1(m)	0.284	0.204	0.292	0.322	0.287	0.297	0.282		0.245	0.204	0.219	0.218
alfg(m)	0.794	0.751	0.783	0.709	0.713	0.695	0.655		0.631	0.688	0.654	0.767
betg(m)	3.48	4.32	5.59	8.89	10.36	14.43	15.65		13.94	10.49	8.36	5.44
ri(m)	2.3	4.3	12.7	16.3	30.5	29.0	45.2		17.5	7.9	6.1	4.3
tamx(m)	-2.3	-0.6	5.4	13.6	20.7	26.2	29.8		23.1	16.3	6.5	-0.6
	-12.1	-10.7	-4.9	1.6	7.6	13.2	15.7		10.3	4.2	-2.8	-9.4
tamn(m)	148.	220.	313.	394.	466.	514.	531.	452.	348.	241.	145.	
ra(m) WISCONSIN -			(deg)= 42			elev (m)=		tp05(mm) = 5		241. m)= 102		115.
month		feb	mar mar	•			iul	•	•			dec
	jan 0.481	0.449	0.466	apr 0.5მა	may 0.463	jun 0.509	0.398		sep 0.464	oct 0.475	nov 0.414	0.466
prw2(m)	0.288	0.260	0.299	0.349	0.313	0.285	0.398		0.464	0.206	0.243	0.466
prw1(m)	0.661	0.756	0.711	0.759	0.313	0.203	0.635		0.638	0.670	0.692	0.695
alfg(m)												
betg(m)	5.28	4.24	7.14	8.20	7.54	12.34	14.83		11.99	9.91	8.20	6.07
ri(m)	4.6	5.3	9.1	18.8	17.3	24.6	24.1	22.4	17.5	10.2	6.9	7.1
tamx(m)	-1.6	-0.1	4.9	11.6	17.7	23.9	27.3		22.1	15.7	7.1	0.4
tamn(m)	-9.7	-8.6	-3.5	2.1	7.1	12.6	16.3		11.8	5.8	-1.2	-7.4
ra(m)	148.	220.	313.	394.	466.	514.	531.	452.	348.	241.	145.	115.
WYOMING - C			g)= 41.15	yrs= 22.		ev (m)=186	P.	5(mm)= 44.5				
month	jan	feb	mar	apr	may	jun	jul		sep	oct	nov	dec
prw2(m)	0.360	0.414	0.489	0.527	0.597	0.488	0.425	0.373	0.444	0.386	0.398	0.343
prw1(m)	0.125	0.176	0.225	0.206	0.251	0.282	0.293		0.159	0.123	0.133	0.131
alfg(m)	0.998	0.924	0.833	0.864	0.749	0.689	0.742		0.735	0.794	0.942	0.967
betg(m)	1.63	1.80	2.97	4.04	7.19	7.67	5.56		5.44	4.85	2.31	1.65
ri(m)	1.5	1.3	2.5	4.1	8.6	19.8	20.8		50.8	1.5	2.0	2.0
tamx(m)	2.8	4.3	6.5	11.9	17.1	23.3	28.1	27.2	22.1	15.4	8.3	4.6
tamn(m)	-10.1	-9.1	-6.7	-1.8	2.9	8.1	12.0		6.2	0.5	-4.9	-8.3
ra(m)	217.	296.	425.	509.	555.	644.	607.	537.	439.	325.	230.	187.
DISTRICT OF		WASHING		lat(deg)=		yrs= 87.	elev		tp05(mm)=		tp6(mm)=	
month	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
prw2(m)	0.424	0.415	0.452	0.478	0.455	0.377	0.400		0.406	0.394	0.361	0.410
prw1(m)	0.265	0.254	0.303	0.276	0.260	0.269	0.243		0.179	0.162	0.242	0.244
alfg(m)	0.834	0.811	0.828	0.789	0.751	0.622	0.581		0.635	0.628	0.731	0.679
betg(m)	7.59	9.75	9.83	9.73	10.74	15.34	20.14	20.57	16.38	15.49	12.14	12.90
ri(m)	10.7	8.4	9.1	24.1	44.7	23.9	35.8		36.6	21.3	8.4	6.6
tamx(m)	6.7	7.6	12.8	18.3	24.2	28.7	30.6	29.4	26.2	20.1	13.6	7.6
tamn(m)	-1.7	-1.5	2.4	6.9	12.7	17.8	20.2	19.2	15.9	9.2	4.1	-0.7
ra(m)	174.	266.	344.	411.	551.	494.	536.	446.	375.	299.	211.	166.

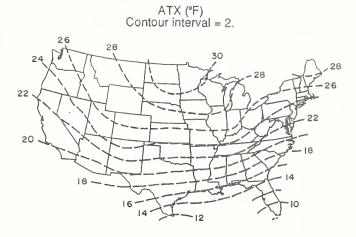
Appendix D. Parameters of Weather Input:

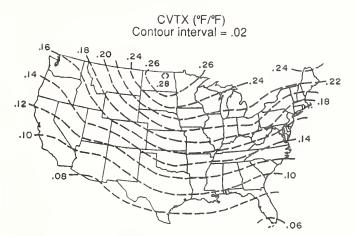
Part 2, Maps of Statistical Parameters

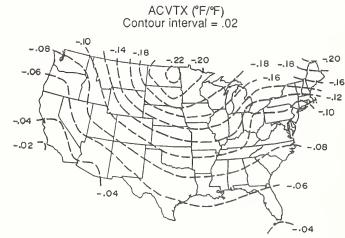
for Continental United States

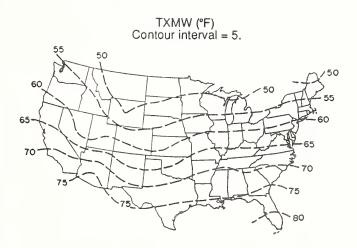
Note: The following maps refer to the weather model parameters that are required by Opus in data lines HO2 through HO4. The maps show the large scale parameter variations for the continental United States. Actual local values may not always be well predicted by interpolation, especially in rough terrain.

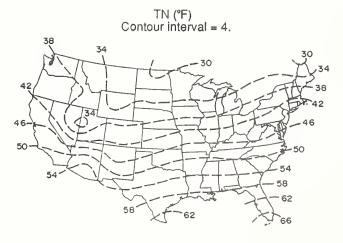












Appendix D: Weather Parameters

CVTN (°F/°F) Contour interval = .05 AMTN (°F) Contour interval = 2. .30 .40 .50 RMD (Ly) ACVTN (°F/°F) Contour interval varies Contour interval varies -.10 -.40 -.60 -,90 -.10 -.05 AR (Ly) Contour interval = 10 RMW (Ly) Contour Interval = 10 - 180 

Appendix D: Weather Parameters

Appendix E. Glossary of Input and COMMON Variables for Opus Program

<u>Indexes</u> The following are used in the glossary below as symbolic indexes to indicate the quantity referred to in parentheses following the variable name.

```
- crop
CL
      - computational layer
CP
      - carbon pool
      - Julian day
D
      - nutrient element
E
      - horizon layer
^{\rm HL}
      - Ith occurrence
I
ΙT
      - tillage event
IF
      - fertilization event
ΙP
      - pesticide application event
      - irrigation event
IR
IT
      - tillage (mechanical operation) event
J
      - particle size class
K
      - hydrologic case
L
      - hydrologic element
Μ
      - manure type
      - month
MO
      - node, point
- nutrient layer
N
NL
      - pesticide
Ρ
      - slope location
ST
      - storm
T
      - tillage operation
Y
      - rotation year
```

VOL.I NAME	INPUT (Line ID)	COMMON BLOCK	DEFINITION
a		SED	Cross-sectional area of flow at node N [m²]
		HOP1	Runoff peak parameter, IHOP=1
ΕI	*	ACTDAT	Measured daily erosivity index
$T_{min}$	*	ACTDAT	Measured daily minimum air temperature [°F or °C]
	*	ACTDAT	Measured daily maximum air temperature [°F or °C]
P	*	ACTDAT	Measured daily precipitation [mm or in]
$q_p$	*	ACTDAT	Measured daily runoff peak discharge [m <sup>3</sup> /sec or ft <sup>3</sup> /sec]
$R_i$	*	ACTDAT	Measured daily solar radiation [langley]
-	*	ACTDAT	Measured daily runoff volume [mm or in]
	*	ACTDAT	Measured daily sediment yield [t/ha or kg/ha]
		RMETR	Amplitude of annual cycle of daily value of coefficient of variation of daily radiation for dry days [langley]
		RMETR	Amplitude of annual cycle of daily value of coefficient of variation of daily radiation for wet days [langley]
	н03	RMETR	Amplitude of annual cycle of coefficient of variation of daily minimum temperature [°F]
	Н02	RMETR	Amplitude of annual cycle of coefficient of variation of daily maximum temperature [°F]
E <sub>s</sub> E <sub>t</sub>		STATE STATE	Actual soil evaporation [mm] Actual plant evapotranspiration [mm]
	NAME  a EI Tmin Tmax P Qp Ri	NAME (Line ID)  a  EI	NAME (Line ID) BLOCK  a SED HOP1 EI * ACTDAT Tmin * ACTDAT Tmax * ACTDAT Qp * ACTDAT  Ri * ACTDAT * RMETR  H03 RMETR  H02 RMETR  Es STATE

NAME	VOL I.	INPUT (Line ID)	COMMON BLOCK	DEFINITION
AGRAV	g		CONS	Gravitational constant [m/s <sup>2</sup> ]
AGN			RMETR	First-order coefficient in time series expression for seasonal variation of standard deviation of daily minimum temperature
AGX			RMETR	First-order coefficient in time series expression for seasonal variation of standard deviation of
AKS	K,		LOCAL	daily maximum temperature Current value of net hydraulic conductivity of 10- mm surface layer [mm/min]
AL(N)			SED	Cross-sectional flow area for previous time step at node N [m²]
ALAI(C)	$\mathbf{L}_{\mathtt{p}}$		STATE	Plant leaf area index
ALAM(CL)	λ΄	C02	SOIL	Pore size distribution index for soil computational layer CL (Brooks and Corey g)
ALBS	ξ	B01	RMETR	Soil surface albedo when smooth [fraction]
ALFG (MO)	α	н07	RMETR	Gamma distribution parameter for statistical description of daily rainfall amount on wet days in month MO
ALIG(M)			MGMT	Lignin content of manure type M [weight fraction]
ALPH(L,N)			AHOP	Hydraulic flow coefficient for hydrologic element  T, node N [m/min]
AMIRR		E17	MGMT	Annual depth of irrigation targeted [mm or in]
AMTN		н03	RMETR	Amplitude of annual cycle of daily minimum temperature [F ]
ANH (M)		E09	MGMT	Ammonia content in manure type M [%]
ANU(C)			NUTRIN	Actual cumulative nitrogen use by crop [kg/ha]
AOM (M)		E09	MGMT	Total organic matter content in manure type M [%]
APH			RMETR	Wind effect factor in Ritchie's ET equation: APH = 1 + FWIND
APHOS (M)		E09	MGMT	Labile phosphate content in manure type M [%]
APS(K)			AHOP	Plane area per unit channel width $[m^2]$ , hydrologic case K
APU(C)			NUTRIN	Actual cumulative phosphorus use by crop C of year simulated [kg/ha]
AR		H04	RMETR	Amplitude of sine function annual cycle of daily incoming radiation [langley]
ARRHC (P)	$b_{ar}$	E06	PESTI	Arrhenius equation activation energy coefficient
ARUP (K, L)	$A_{\rm u}$	F07	AHOP	<pre>for pesticide P [Kcal/mole] Area contributing at head end of channel [ha or ac]</pre>
ASLK	$K_u$	G04		Average USLE erodibility K for total field area [complex units]
ATN (M)		E09	MGMT	Total nitrogen content in manure type M [%]
ATX		н02	RMETR	Amplitude of sine function annual cycle of daily maximum temperature [°F]
AV	$A_p$	F11	PONDC	Constant base area of impoundment at 0 depth $[m^2 \text{ or } ft^2]$
AWSH	0	202	AHOP	Watershed area [m <sup>2</sup> ]
B15(HL)	$\theta_{15}$	C02	SOIL	15-bar soil water content of soil horizon layer HL, used to calculate residual water content, THR [mm/mm or in/in]
BAREA	A			Area of smallest plane unit [m²]
BARENC BARENS	n n		CONS	Manning's n of bare soil in channels
DAKENS	n		CONS	Manning's n of bare soil on surface

NAME	VOL I.	INPUT (Line ID)	COMMON BLOCK	DEFINITION
BC (or PC	<b>:</b> )		AHOP	Plane flow convergence expressed as tangent of angle between flow lines at extreme edges of plane
BETG (MO)	β	но8	RMETR	Gamma distribution coefficient for statistical description of depth of daily rain on wet days in
	_	-05		month MO
BEXTR(P)	f <sub>b</sub>	E05	PESTI	Extraction coefficient for pickup of pesticide P by runoff [kg/L]
BGN			RMETR	Coefficient in second-order term for description of annually cyclic time series of daily value of standard deviation of daily minimum temperature [°C]
BGX			RMETR	Coefficient correspondent to BGN but for daily maximum temperature. Derived from input parameters.
BIF			FLOWS	Crust formation parameter
BP(I)			HOP2	Breakpoint accumulated depth of depth-time pair I of current storm [mm]
BULKD			TONCYC	Bulk density of soil in microbially active zone
BV	$B_p$	F11	PONDC	Coefficient parameter in relation of impoundment depth and area
BWFR			нор2	Bottom width of furrows, if any [m]
CFNC(C)	$(n_o - r$	n <sub>m</sub> )	NUTRIN	Coefficient of decay with time, for crop C
OPINI (O)		201	MILIMO TAI	nitrogen content function
CFXN (C)		D04	NUTRIN	<pre>Flag constant indicating that crop C is nitrogen fixing:     0 = no     1 = was</pre>
CL(L,J,N)	C.		SED	<pre>1 = yes Concentration at node N, of particle-size class J,</pre>
(-, -, -,	- 5			at last time step on element L
CMX(J,N)	$C_{smx}$		SED	Transportation capacity concentration of particle- size class J, at node N
CNLCH			LABILE	Concentration of soluble nitrate in water leached below roots
CN1	CN		HOP1	SCS Curve Number, nominal for AMC I, hydrology option 1
CN2	CN	B01		SCS Curve Number, nominal for AMC II
CO2			PLOTS	Carbon dioxide source/sink (See also CSRSNK.)
COEFF		H13	RMETR	Evaporation pan coefficient, used if pan data are taken instead of radiation
CONA CONF			BOTH	Maximum daily stage-2 soil evaporation amount [mm]
CONP		B01	LABILE	Units conversion parameter Concentration of nitrogen in rainfall [mg/L or ppm]
CONTHM CONTHS (CI	<b>L)</b>		SOIL SOIL	Surface-soil heat flux diffusivity [mm²/min] Local soil heat flux diffusivity, soil layer CL [mm²/min]
CONVF (C)	C <sub>e</sub>	D03	CROP	Crop C radiation conversion factor [kg/ha/langley]
CONY(C)		D04	CROP	Nitrogen content in crop C yield [kg/kg or lb/lb]
COVI(C)		D03	CROP	Permanent plant cover (0.0 to 1.0) of perennial crop C
CPADS (CL,	P) C <sub>a</sub>		PESTI	Concentration of pesticide P in layer CL that is adsorbed onto organic or mineral material
CPQIR(P)			PESTI	Concentration of pesticide P in irrigation

NAME	VOL I. NAME	INPUT (Line ID)	COMMON BLOCK	DEFINITION
CQ		F11	PONDC	Coefficient parameter in relation of impoundment discharge and depth [m³/min or ft³/min]
CSRSNK CT(J,N)			PLOTS SED	Carbon source/sink (See also CO2.) Concentration of sediment particles of size class J, at node N, in surface water
CUS	Фр		HOP1	USLE daily crop practice factor may be read in as 1.0 but is updated daily with residue and crop changes
CV	Cp	F11	PONDC	Exponent parameter in relation of impoundment depth and area
CVRD			RMETR	Annual mean coefficient of variation of incoming solar radiation on dry days [langley]
CVRW			RMETR	Annual mean coefficient of variation of incoming solar radiation on wet days [langley]
CVTN		н03	RMETR	Annual mean coefficient of variation of daily minimum temperature [°F]
CVTX		Н02	RMETR	Annual mean coefficient of variation of daily maximum temperature [°F]
D50	_	-01		Mean particle size
DA DAMR (NL, E	A 3)	В01	HOP1 PARAM	Catchment area [ha or ac] Fractions of mineral N and of S absorbed by
DAMRMN(E)			PARAM	residue (Note that layer=1 or 2 but never 3) Minimum C/N and C/P ratios allowed in residue after direct absorption
DASL	f <sub>z</sub>	В01	LABILE	Depth of active surface layer (0.0-10.0 mm) [mm or in]
DATNAM (20	))	Н01		Hollerith name of rainfall data used; 80 characters
DAYL				Length of daylight [min]
DCA	$C_a$		DRAT	Coefficient in draintile equation
DCB	C <sub>p</sub>		DRAT	Coefficient in draintile equation
DDEM(C)		D02	CROP	Celsius degree-days between planting and emergence of crop C [°C-days or °F-days]
DDIMP	Z <sub>d</sub>	E18	SOIL	Depth from draintiles to limiting or impervious layer [m or ft]
DDM	$\Delta_{ ext{om}}$			Potential daily production of plant mass [kg/ha]
DDMX(C)	<b>P</b>	D02	CROP	Celsius degree-days between emergence and senescence of crop C [°C-days or °F-days]
DDYR			STATE	Mean annual total °C-days for a location based on meteorological data given, and threshold temperature of first listed crop. Calculated by
DEACT (C)		D03	CROP	the program, for comparison with crop °C-day senescence parameters.  Measured daily rate of conversion from live to
22		200	31.01	dead standing crop C after maturity [kg/kg/day or lb/lb/day]
DEC1(E)	k,		PARAM	Structural decomposition rate for element E [yr <sup>-1</sup> ]
DEC2 (E)	k'x		PARAM	Metabolic decomposition rate for element E [yr-1]
DEC3	k		PARAM	Decomposition rate of soil organic matter with fast turnover [vr <sup>-1</sup> ]
DEC4	k		PARAM	Decomposition rate of soil organic matter with slow turnover [yr <sup>-1</sup> ]
DEC5	k		PARAM	Decomposition rate of soil organic matter with intermediate turnover [yr <sup>-1</sup> ]

NAME	VOL I. NAME	INPUT (Line ID)	COMMON	DEFINITION
DEFAC	(f <sub>w</sub> f <sub>t</sub> )		PLOTS	Decomposition factor combining the effects of temperature and moisture
DELH(L,N)			SED	Net local gain or loss of soil depth due to erosion/sedimentation [m]
DELV			CSTATE	Change in water storage in computational layer over current time step [mm]
DENH2O	γ.,		CONS	Density of water [kg/m³]
DEPDR			DRAT	Depth to draintiles, if any [mm]
DEPIN(Y, I	)	E14	MGMT	Depth of incorporation or injection of I <sup>th</sup> manure application in rotation year Y [mm or in]
DEPST (Y, I	P)	E16	MGMT	Depth of injection of pesticide in application IP of rotation year Y [mm or in]
DFRW(T)		E03	MGMT	Furrow depth resulting from particular tillage operation T; negative indicates that cultivation leaves surface as is [cm or in]
DFRX(L,N)			AHOP	Current depth [m] of furrows or channel at each location along flow path
DINIT DINT		F07		Initial depth of channel below mean surface [m] Measure of daily interception of rain [mm]
DKC(C)	$C_d$	D04	CROP	Decay constant in relation between plant C maturity and nitrogen content
DKFL(P)		E05	PESTI	Decay constant for time decay of pesticide P on leaf [day-1]
DKOC (P)	$K_{oc}$	E05	PESTI	Equilibrium constant for adsorbed pesticide P in soil [L/kg]
DKSOIL(P)	$K_{ps}$	E05	PESTI	Decay constant for time decay of pesticide P in soil [day-1]
DKTEMP (P)		E06	PESTI	Coefficient for temperature effect on decay rate of pesticide P
DKTHE (P)		E06	PESTI	Coefficient for water-content effect on decay rate of pesticide P
DLTA(J)			SEDCH	Relative erodibility for particle-size class J at current conditions
DM(C)	$m_p$		STATE	Current plant mass (dry matter) of crop C
DMINIT(C)	тр	D03	CROP	Mass of seedling material when crop is started from seedling [kg/ha]
DMULT1 DMULTS (NL	)		PARAM PARAM	Cultivation factor for soil organic matter Cultivation factors for structural material (first
	,			parameter is for litter layer, second is for soil)
DPFR		B02	HOP2	Depth of furrows [m or ft]
DPS(J)	Уd	G02	SED	Effective mean diameter of particle-size class J (read in mm and converted) [mm or in]
DRSP		E18	SOIL	Spacing of drains, if any [m or ft]
DTBS DTDAY DTE		EIO	3011	Time interval between storms [min] Time interval [days] Weighted time of evaporation in interstorm ET
DTI				<pre>period [min] Time interval between storm starts or 1 day,</pre>
				whichever is smaller [min]
DTILL		B02		Initial depth to plowpan [cm or in]
DWDR			RMETR	Expected value of depression of daily solar radiation on wet days compared to dry days,
				[langley]

NAME	VOL I. NAME	INPUT (Line ID)	COMMON BLOCK	DEFINITION
D1.D.M			DMEMD	Expected value of depression of daily maximum
DWDT			RMETR	Expected value of depression of daily maximum temperature on wet days compared to dry days [°C]
DWTB		B01		Depth to mean water table (or to drains if IFDRAN >0) [m or ft]
DZ (CL) DZB (CL) DZL (NL) EDEPTH			SOIL SOIL NUTRIN PARAM	Thickness of soil computational layer CL [mm] Distance between center of layer CL and CL-1 [mm] Thickness of nutrient layer NL [mm] Depth of soil used to compute soil loss [m]
EFTL(T) EI	e <sub>c</sub>	E03	MGMT FLOWS	Mixing efficiency of tillage operation T Storm or daily USLE EI factor [mJ-mm/ha-hr]
EK(L)	Cf	G04	SED	Coefficient in critical shear type erosion
EN	b		AHOP	equation for concentrated flow, $L = 2$ or 3 Uniform flow discharge rating exponent (5/3 for Manning's n)
EO	${\tt E}_{\circ}$			Total interval potential ET [M]
EPNFA (NL)	CA		PARAM	Regression intercept that determines effect of annual precipitation on atmospheric nitrogen fixation
EPNFS (NL)	b <sub>A</sub>		PARAM	Regression slope that determines effect of annual precipitation and annual potential evapotranspiration on soil nitrogen fixation
EPS (CL) EQ	ε	F11	SOIL PONDC	Exponent in relation of soil K to ⊕  Exponent in relation of impoundment depth and discharge
EQSD(J)			SED	Equivalent sand diameter of particle-size or
ER			FLOWS	aggregate-size class J [m] Ratio of enrichment of specific surface in waterborne sediment, compared to surface soil
ES1			BOTH	Cumulative stage-1 soil evaporation [mm] Test value for stage-1 soil evaporation limit
ESL ESRSNK (E) ETA	η		PLOTS	Source/sink for N or P Exponent in relation of soil K and H
EMAT			нор2	= 2 + 3[ALAM(J)] (Brooks-Corey) 1/ETA
ETAI FB	Ip		FLOWS	Amount of infiltration before runoff [mm]
FC FERA(Y,IF	K's ')	E14	HOP2 MGMT	Effective surface hydraulic conductivity [mm/min] Amount of ammonia in I <sup>th</sup> fertilization of rotation year Y [kg/ha or lb/ac]
FERN(Y, IF	`)	E14	MGMT	Amount of nitrogen in Ith fertilization of rotation
FEROD (CL)		C03		<pre>year Y [kg/ha or lb/ac] Relative erosion resistance of soil layer CL:     0 = erodible     1 = erosion resistant</pre>
FERP(Y, IF	`)	E14	MGMT	Amount of phosphate in I <sup>th</sup> fertilization of rotation year Y [kg/ha or lb/ac]
FKA FLIM	K <sub>c</sub> K <sub>s</sub>		FLOWS AHOP	Minimum surface hydraulic conductivity [mm/min] Minimum profile soil hydraulic conductivity [mm/min]
FRACA(IP) FRACL(J)		E16 G02	PESTI SED	Application loss of pesticide P [fractional] Fraction of clay-sized primary particles in sediment-size class J
FRACP(IP)		E16	PESTI	Fraction of pesticide P that ends up on plant
FRASL(J)		G02	SED	<pre>surfaces Fraction of silt-sized primary particles in sediment-size class J</pre>

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NAME	VOL I.		COMMON	DEFINITION
	NAME	(Line ID)	PLOCK	
	6	000	CDD	Proceedings of sound plants out to
FRASN(J)	İ,	G02	SED	Fraction of sand-sized primary particles in sediment-size class J
FRLIGN(NL	,)		PLOTS	Fraction of structural material in layer NL that
21,2201, (11,2	,			is lignin
FRORG(J)		G02	SED	Fraction of organic matter associated with
ECAND			TO MOVO	particles in sediment-size class J
FSAND FURCAP			TONCYC FLOWS	Fraction of sand in soil Storage capacity of furrows when level; in such a
LONGAL			2 20.00	way that this storage must be filled before runoff
				occurs [mm]
FWASH(P)		E05	PESTI	Fraction of pesticide P that is soluble in
EMILVE	0	В01		rainwater  Fyanoration onbancement factor for wind and
FWIND	Cw	BOI		Evaporation enhancement factor for wind and humidity effect (mean), default = 0.28
GA	G		HOP2	Effective capillary suction parameter in
				infiltration relation [mm]
GLAT		B01		Catchment latitude [degrees]
				POS = Northern Hemisphere
GX				NEG = Southern Hemisphere Ratio of dry matter potential to harvested yield
011				potential
GZ(CL)			SOIL	Depth to bottom of computational soil horizon
				layer CL [mm or in]
GZC			HOP2	Depth to infiltration control layer [mm]. This
				soil depth must be saturated before runoff begins.  Occurs only with a limiting subsurface soil layer.
GZH (HL)		C02	IO	Depth to bottom of soil horizon layer HL [mm]
GZTL			STATE	Depth to bottom of deepest root penetration [mm]
H(CL)	Ψ		SOIL	Capillary potential in soil pores in layer CL [mm]
HDL HF(L,N)			RMETR AHOP	Trigonometric function relating to day length Depth of deposition in channel L at location N,
пе (п, м)			AHOF	from original channel bottom [mm]
HM	h		SOIL	Depth of saturated zone built up above drain tiles
				(if any) [mm]
HOPI			COTT	Hollerith name of hydrological option
HOUT HPI			SOIL	Capillary head at lower boundary condition Half of PI
IAPLIC(P)		E16	PESTI	Pesticide P application method code:
. ,				<pre>0 = soil surface application</pre>
				1 = aerial application; proportions input
				<pre>according to conditions 2 = application with irrigation</pre>
				<pre>2 = application with irrigation 3 = aerial application; loss proportion</pre>
				defined by program
IOU			IO	Index for output units
IBDA		A02		Beginning simulation day of month
IBDATE IBMO		A02		Beginning date = year*1000 + Julian day Beginning month of simulation
IBROT		A02		Rotation year of simulation start (which set of
=				Ell-El7 data describes the starting year)
IBYR		A02	LIMITS	Beginning year of simulation (two digits)
ICHANG		702	IOC	Output warning message for parameter changes
ICON		A02	IO	Flag switching soil-layerwise output from mass to concentration units for all chemical variables
ICONU			IO	Output concentration units

NAME	VOL I. NAME	INPUT (Line ID)	COMMON	DEFINITION
ICR(Y,I) ICRP ICRY		E02 E12,E14,	MGMT STATE STATE	Crop ID for I <sup>th</sup> crop in rotation year Y Current crop ID Current crop rotation year ID. Precedes IRYR for winter planting; otherwise = IRYR. Day of operation
IDA		E16,E17		bay of operation
IDATE IDAYF(Y, I IDAYP(Y, I IDAYT(Y, I IDCR(I, C) IDPL(T)	P)	D02 E03	MGMT MGMT MGMT CROP MGMT	Date code number for next storm record Julian date of fertilization Julian date of pesticide application Julian date of tillage operation Hollerith name of crop C ID number (order of reading in table) of crop, if
IDPST(P) IDTIL(T) IEDA IEDATE		E05 E03 A02	PESTI MGMT LIMITS	any, involved in field operation T Hollerith name of pesticide P Hollerith name of tillage operation T Day of month of end of simulation Date code number of end of simulation
IEMO IEYR IFDRAN		A02 A02 A04	NOPTS	<pre>= year*1000 + Julian day Month of end of simulation Year of end of simulation (two digits) Flag for draintile simulation: 0 = no</pre>
IFFIX		F01,F07		<pre>1 = yes Flag code for fixed management zone in flow path: 0 = no fixed zone 1+ = existence of an area such as a grass buffer strip along the flow path, and a data</pre>
IFGEN		A04	RMETR	card describing this area is read Switch invoking generation of daily rainfall data, used only if IHOP=1 (curve number hydrology option)
IFIRR		A04	MGMT	<pre>Flag code for invoking simulation of irrigation:     0 = none     1 = sprinkler     2 = furrow irrigation from local supply</pre>
IFJUL			ACTDAT	<pre>3 = furrow irrigation from ditch supply Flag indicating that dates are Julian: 0 = no 1 = voo</pre>
IFLHR		A03	HOP2	<pre>1 = yes Flag code for treating hourly breakpoint data:    0 = no    1 = yes</pre>
IFNUT		A04	NOPTS	<pre>Flag for simulation of nutrient movement and transformations:    0 = no</pre>
IFOUT		A03	STATS	<pre>1 = yes Flag for printing of results of each storm simulation: 0 = annual summary</pre>
IFOUTL		F11		<pre>1 = daily storm summary Flag for impoundment element outlet control:     0 = none     1 = rating defined as Q = CQ(ht-ZQ)<sup>EQ</sup>     2 = orifice size given</pre>

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NAME	VOL I. NAME	INPUT (Line ID)	COMMON BLOCK	DEFINITION
IFPEST		A04	NOPTS	Flag for simulation of pesticide application and rate:  0 = none 1 = pesticides 2 = radionuclides
IFPOND		A04	FLOWS	Flag invoking simulation of farm pond unit:  0 = no  1 = yes, with parameters input for relation of depth to surface area  2 = yes, with pond geometry calculated by Opus from local topography
IFR IFRAN		A03	MGMT RMETR	Nutrient application counter  Flag invoking randomization of weather data  0 = daily mean weather used
IFREAL		A03		<pre>1 = randomized temperature and radiation Flag indicating use of actual daily data record of runoff, sediment, air temperatures, or radiation (requires extra input file):     0 = no</pre>
IFRNCN		A03	HOP1	<pre>1 = yes Flag indicating that curve number runoff predictions are to be randomized:     0 = no     1 = yes</pre>
IFSED		A04	SED	Flag for simulation of sediment transport:  0 = no 1 = yes
IFT		A04		<pre>Flag driving program read and use of monthly meteorological data:    0 = no data used    1 = only temperature data used</pre>
IFWRDA		A02		2 = temperature and radiation data used Flag controlling the writing of the date to
IHOP		A03	STATS	<pre>terminal throughout simulation Flag to indicate hydrology option:     1 = daily rainfall, curve number runoff     2 = breakpoint rainfall, infiltration     methodology</pre>
ILBR			SOIL	Index of soil computational layer that is just below the maximum rooting depth. Percolation is defined as the flow from this layer to the layer just below. Water and chemical balance is computed for the region from the soil surface to this layer.
INTSP		A02	IO	Time increment of output to soil layerwise file [days]:  0 = no output 1 = daily output 31 = monthly output (end of each month) 365 = annual output
INUN		A03	STATS	<pre>n = output every n days Flag to indicate units of input:    1 = metric    2 = English</pre>

NAME	VOL I. NAME	INPUT (Line ID)	COMMON BLOCK	DEFINITION
TNUN11			TO	Tanian annham of more file for metagonal missis
INUN1			IO	Logical number of read file for meteorological data (default=1)
INUN2			IO	Logical number of read file for parameter data (default=2)
INUN4			IO	Logical number of read file for measured data (default=4)
IOUT3 IOU		A03	IO	Logical number of write file for run output Flag indication of units of output:  1 = metric 2 = English
IPAN		A03	RMETR	Flag to indicate that pan evaporation data are read instead of daily radiation:  0 = no 1 = yes
IPER(C)		D02	CROP	Flag indicating type of crop C:
				<pre>0 = annual harvested crop</pre>
				<pre>1 = perennial harvested crop 2 = perennial grazed crop</pre>
				3 = perennial grazed crop 3 = perennial natural vegetation
				4 = annual grazed crop
IPLP			HOP2	Soil computational layer index for top of plowpan, if any
IPRK			SOIL	Number of soil layers through which mass balance is calculated
IPST			PESTI	Code number of next pesticide to be applied
IQUIT			IOC	Output warning message for program stops
IRLEI			ACTDAT	<pre>Flag indicating use of actual EI data:    0 = no    1 = yes</pre>
IRLPR			ACTDAT	Flag indicating use of actual precipitation data: 0 = no
IRLQP			ACTDAT	<pre>1 = yes Flag indicating use of actual peak runoff data: 0 = no</pre>
IRLRAD			ACTDAT	<pre>1 = yes Flag indicating use of actual radiation data:</pre>
INDIAD			ACIDAI	0 = no 1 = yes
IRLRO			ACTDAT	Flag indicating use of actual runoff data:
				0 = no 1 = yes
IRLSD			ACTDAT	Flag indicating use of actual sediment yield data: $0 = no$
IRLTM			ACTDAT	<pre>1 = yes Flag indicating use of actual temperature data: 0 = no</pre>
IRRDY IRU IRYR ISC		E17	MGMT IOC STATE CSTATE	<pre>1 = yes Number of irrigation days per season Output units Rotation year (1 TO NYROT) Code for indication of flow state of layer:     0 = flowthrough condition     1 = upflow through top layer (no solute outflow)     2 = internal sources or sinks</pre>

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NAME	VOL I.	INPUT (Line ID)	COMMON BLOCK	DEFINITION
ISC (cont	.)		HOP2	<pre>3 = layer 1 flowing out at top and bottom Counter for number of storm segment in breakpoint record containing multiple storms</pre>
ISU ITIL ITOCH		F01	IOC STATE	Output sediment units ID of next tillage operation to be performed Flag for inclusion of simulation of terrace outlet channel, useful only when NUN is large, and/or a terraced field is described 0 = no
ITRTL			LOCAL	<pre>1 = yes Total number of iterations in surface routing for single event; internal information</pre>
ITU IVARK IWARN IWARNR IWU		A04	IOC IOC IOC	Output time units Flag for simulation of spatially varying USLE K Output warning message for parameters Output warning message for rainfall Output units
IYR JDATE JDAY JDE JDPMD			KEEP STATE STATE KEEP MGMT	Two-digit current year Date given as 1000*IYR + Julian date Julian date Julian date of end of previous rain Julian date at which a meadow is plowed and converted to an annual crop
JDS JDSTR JINP			KEEP MGMT LOCAL	Julian date of start of next rain Julian date of start of irrigation season Code for existence of upstream inflow:  1 = inflow 0 = no inflow (element L=1)
JLB(L)			LOCAL	Code identifying type of lower boundary of element L, depending on whether the slope is kinematic or less:  0 = kinematic
JOSHV JYR			MGMT	<pre>1 = diffusive wave (critical depth boundary) Julian date at which an oilseed crop is harvested; an oilseed crop is one for which the first four letters of the identifier ICR() are 'SOYB' Two-digit year of next breakpoint record</pre>
K(4) KAPPL(Y,I	TF)	E14	MGMT	Random number generating seeds Application-method code for fertilization IF in rotation year Y:  0 = surface application 1 = incorporation at some depth DEPIN 2 = with irrigation
KCR KDATE			ACTDAT	Used locally for ICR(I,Y) Date code (see JDATE) for date of actual record read under option IFREAL
KL			STATE	Integer code for hydrologic topography condition:  1 = unfurrowed (natural) flow 2 = furrowed flow
KPEST (Y, I	IP)	E16	MGMT	Pesticide code number for application IP in rotation year Y
KRLRD			ACTDAT	Flag indicating use of actual temperature and/or radiation records. Mandates reading real data file each day of simulation.

NAME	VOL I.	INPUT (Line ID)	COMMON BLOCK	DEFINITION
KTILL(Y,	IT)	E12	MGMT	Tillage code for cultivation operation IT in rotation year Y. This number refers then to the number of operation in the menu of different tillage operations read by the user.
LDPH			LIMITS	Season start day offset:  0 = Northern Hemisphere  182 = Southern Hemisphere
LEV			RMETR	Flag for precipitation condition on previous day:  1 = dry 2 = wet
LKL			KEEP	Surface flow state KL from previous day
LLIM			AHOP	Soil layer number at which minimum hydraulic conductivity occurs (see FLIM)
LR			LOCAL	Element number that has surface flow condition that limits hydrology time step, breakpoint option
MANU(I)			MGMT	Manure type used in application I, codes selected in input:  0 = none 1 = beef, solid 2 = dairy, liquid 3 = dairy, solid
				4 = horse, solid 5 = domestic sludge 6 = poultry, solid 7 = sheep, solid 8 = swine, liquid
				<pre>9 = swine, solid 10 = other solid waste, defined by user</pre>
MATYP (Y,	IF)	E14		Code for type of manure in I <sup>th</sup> application of
METABC (NI	L) M <sub>rc4</sub>		PLOTS	rotation year Y Metabolic carbon
METABE (N)			PLOTS	Metabolic N or P
METMNR (N)	L,E)		PLOTS	Amount mineralized due to decomposition of metabolic processes. Negative values indicate immobilization.
MIDN			HOP2	Code used in breakpoint rainfall option indicating
MO	E12.E1	14,E16,E17	STATE	record goes into next day Month of operation
MO1	212,21	.,,	STATS	Current month of statistical summation
MOB			LIMITS	Beginning month
MOE		E01	LIMITS	Ending month
MULP(K) N	M	F01 E09	AHOP	Number of plane units per intercepting Identifying index of each user-defined manure type
NC		в03		Number of crops on field at start of simulation
NCI(K,L)			AHOP	Index of distance along channel path at which channel flow actually begins for element L, flow state K; corresponds to ARUP(K,L)
NCROP		D01	CROP	Number of different crops in total rotation cycle
NCRPY(Y)			MGMT	Number of crops per year for each rotation year (LE.4)
ND(K,L)			AHOP	Number of computational divisions of element L, surface state K
NDAY			KEEP	Julian day of next storm (option 2)
NDCU				Number of computational nodes for channel
NDEY				Number of days in last simulation year

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NAME	VOL I.	INPUT (Line ID)	COMMON BLOCK	DEFINITION
NDPU NDYR NELEM			STATE PARAM	Number of computational nodes for the plane Number of days in current year Number of elements (in addition to carbon) that are being modeled  1 = nitrogen flows are simulated 2 = nitrogen and phosphorus flows are
NEPH(K,L)		F07	AHOP	simulated Flag indicating channel type: 0 = ephemeral ≥1 = permanent
NFERT (Y)			MGMT	Number of fertilizer applications in management year Y input into dummy variable NFR
NFIX(K,L,	I)		АНОР	Code at each flow point for existence of fixed management conditions (such as grass buffer strip):  0 = unfixed 1 = fixed
NFIXAC NFR(Y)		E13	PLOTS	Nitrogen fixation accumulator Number of fertilizer applications in year Y
NHE (K)			АНОР	Number of flow elements in total flow path for flow state K:  1 = field surface only 2 = field plus one channel
NIRD		E17	MGMT	<pre>3 = terrace outlet channel as well Number of days between irrigations in fixed irrigation schedule [days]</pre>
NKP NL		F05	STATE	Number of different zones of USLE K along XLP Total number of computational soil layers. Water movement is computed to this layer, but water contents in layers near NL are not used in
NLL(NL)			NUTRIN	transport or balance calculations.  Index of soil computational layer whose top is at bottom of nutrient layer NL
NLT NLU (NL)			NUTRIN	Number of computational nodes for soil temperature Index of soil computational layer whose bottom is at top of nutrient layer NL
NLWT			SOIL	When use of draintiles is simulated, represents index of soil layer to which water table has risen
NMAN NP		E08	HOP2	Number of manure types defined by user Number of breakpoint record data points for event record
NPEST (Y)		E15	MGMT	Number of pesticides applied during rotation year Y
NPS NPST	•	G01 E04	SED PESTI	Number of particle-size classes in surface soil Number of different pesticides considered in simulation
NPT		F02,F08		Number of points along flow element at which slope
NSL		C01	IO	and slope location are given by user  Number of different soil horizons specified in
NST			HOP2	root-zone profile Total number of separable storms in breakpoint record
NTI(CL)			SOIL	Index of soil type or horizon in which computational layer CL lies

NAME	VOL I.	INPUT (Line ID)	COMMON	DEFINITION
NTILL(Y)			MGMT	Number of tillage operations in a given rotation year Y
NTL		E02 E11	MGMT	Total number of tillage types encountered Number of mechanical operations in rotation year Y
NTY(Y) NTYTL(T)		E03	MGMT	Tillage-type code for field operation T:  1 = plant 2 = cultivate 3 = harvest 4 = plow, incorporate standing dry 5 = root harvest or plow, leave standing dry
NUMLAY		705	NUTRIN	NLL(2)
NUN (K)		F07	AHOP	Number of identical geographical elements in catchment (e.g., 4 parallel terraces)
NUTI(CL)			SOIL	Index of nutrient cycling layer in which computational layer CL lies
NUTL			NUTRIN	Number of nutrient layers
NYROT		E10	MGMT	Number of years in overall rotation sequence [yr]
OCCLUD ODTR(L,J,	N) D <sub>f</sub>		PLOTS SED	Occluded phosphorus Detachment rate at node N, element L,
( <b>-</b> //				particle-size class J, from previous time step
OMN (HL)		C03		Organic matter N in soil horizon HL, ppm
OMP (HL) OPC		C03		Organic matter P in soil horizon HL, ppm Weighted effective partial evaporation time from
OFC				previous day for interval calculation
ORGC (HL)		C03	STATE	Organic carbon in soil horizon HL, changed to fraction of soil by weight [%]
OTS			KEEP	Start time of previous storm
OTSL (CL) PABRES			KEEP PARAM	Soil temperature from previous calculation Amount of residue which will give maximum
PAR	Δ	F01		absorption of N Area [ac or ha] contributing to outlet of first
FAR	A <sub>p</sub>	FUI		channel or concentrated flow path; this represents the field element area times the value of MULP [ha
PARENT(E)			PLOTS	or ac] Parent material N or P
PAVE (L)			SED	Relative pavement effect on plane surface: 1 = nonerodible
PB(CL)	$\psi_{\text{\tiny D}}$		SOIL	Air entry head of soil [mm]
PBUB (HL)	$\psi_{\text{b}}$	C02	SOIL	Air entry head of soil horizon HL [mm]; input (absolute value) [in or mm]
PCE				Effective weighted evaporation time during current
PCF			SEDCH	<pre>day Coefficient parameter for soil splash from rainfall</pre>
PCG	$d_{pr}/g_e$		SEDCH	Parameter for relative rate of erosion during capacity deficit [min <sup>-1</sup> ]
PCH			SEDCH	Parameter for relative effect of runoff water
PCLAY(HL)	$f_c$	C02	SOIL	depth in attenuating splash erosion Proportion of clay-sized particles in soil horizon HL
PDRYM(C)	ppm	D02	CROP	Potential plant C dry-matter production (optimum) [kg/ha or lb/ac]

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NAME	VOL I.	INPUT (Line ID)	COMMON	DEFINITION
PEFTXA			PARAM	Intercept parameter for regression equation to compute the effect of soil texture on the microbedecomposition rate (the effect of texture when no sand is in the soil)
PEFTXB			PARAM	Slope parameter for regression equation to compute the effect of soil texture on the microbedecomposition rate
PER(J)			HOP1	Potential enrichment ratio for sediment w, all particles larger than size class J deposited
PERPC (P)			IO	Pesticide percolation variable for output
PES	Es		STATE	Potential interval soil evaporation [mm]
PET			STATE	Potential interval plant transpiration [mm]
PEV	E <sub>p</sub> E <sub>t</sub>		KEEP	Potential climatic daily evaporation for current day
PEVCF (MO)			RMETR	Correction factor to convert Fourier stochastic monthly mean values of generated daily potential evapotranspiration energy to be consistent with recorded monthly mean values of solar radiation when available for month MO
PEVMX			RMETR	Maximum theoretical value of daily
2 2				evapotranspiration [mm]
PFAC			STATS	Conversion factor to produce output print peak flow from interval values of [mm/min] (value
PFCOV PHRN PI	$\mathtt{F}_{\mathtt{p}}$ $oldsymbol{\pi}$	в01	STATE	depends on option IOUTUN) Relative (0-1) total soil cover by plants pH of rainwater 3.14159
PIN PINL				Amount of rain or snowmelt that infiltrates Amount infiltrated from last event
PINRES (NL	,P)		PESTI	Amount of pesticide P in soil residue in layer NL
PINSLT		E05		Initial mass of pesticide in top 10 mm of soil [lb/ac or kg/ha]
PKD (CL) PKNH (CL)	$K_d$	C03	LABILE LABILE	Phosphorus $K_d$ for soil layer CL [mL( $H_2O$ )/g(soil)] $K_d$ for NH <sub>4</sub> in soil layer CL [mL( $H_2O$ )/g(soil)]
PLAI(C)	$F_{LM}$	D02	CROP	Potential maximum leaf area index of crop C
PLHTA			STATE	Current average plant height [m]
PLIG		D02	CROPS	Plant aboveground lignin content
PLIGST			PARAM	Parameter for effect of lignin on structural decomposition
PLOD			STATE	Maximum depth of plowing; plowpan depth (input) [mm or in]
PLOWD(T) PMCO2(NL)	/	E03	MGMT PARAM	Depth of effect of tillage operation T [mm or in] Controls flow from each layer of metabolic carbon
PMES1 (NL)			PARAM	to CO <sub>2</sub> Controls portion of metabolic E that decomposed to SOM with fast turnover
PMLCH	$\mathbf{F}_{m}$		STATE	Proportion of surface soil covered by surface residue
PMN	n	F01,F07		Initial or fixed value of Manning's roughness coefficient. For element 1, becomes RMN(1) until
PMSOL(CL,	P)		PESTI	a tillage operation.  Amount of dissoved pesticide P in soil water in
PMNSEC (NL	,E)		PARAM	soil layer CL Controls the nutrient material flow from parent material to mineral compartment

NAME	VOL I NAME	. INPUT (Line ID)	COMMON	DEFINITION
PNF(C)	$n_m$	D04	NUTRIN	Nitrogen content of plant C at maturity [kg/kg]
PNITRF			PARAM	Controls nitrification flow from NH, to NO.
PNO(C)	$n_o$	D04	NUTRIN	Nitrogen content of plant C at emergence [kg/kg]
PNRAT (C)		D04	NUTRIN	Ratio of phosphorus to nitrogen in crop dry matter in crop C
PNU(C)			NUTRIN	Potential cumulative nitrogen uptake of crop C from soil [kg/ha]
POR(HL)		C02	SOIL	Porosity of horizon layer HL
PORCH			SED	Porosity of sediment eroded or deposited in channel
PORMAC			STATE	Macroporosity of surface resulting from tillage
PORPL			SED	Porosity of sediment eroded or deposited on field
POTHT (C)		D03	CROP	Potential mature height of crop C [m or ft]
POTY(C)		D02	CROP	Optimum yield of crop C [kg/ha or lb/ac]
PPARMN(E)			PARAM	Controls flow from parent material to mineral compartment
PPCV(C)		D03	CROP	Proportion of field surface covered by crop C at maturity
PPU(C)			NUTRIN	Potential cumulative phosphorus uptake by crop C [kg/ha]
PPULF (P)			PESTI	Amount of unwashable pesticide P on foliage
PPWLF (P)		E05	PESTI	Washable pesticide P on plant leaves [kg/ha]
PRF	$P_{\rm u}$	G04	SED	USLE P factor for cropping practice
PRFF (K, L)		F10,F04	AHOP	USLE P factor on fixed (unmanaged) areas, element (K,L)
PRNC PROFD(K,L)	)		AHOP	Plant ratio of N to C Depth to erosion-resistant layer along element (K,L)
PROSL(J)		G02	SED	Proportion of particles by weight in particle-size class J
PRW(V,MO)	Pi	н05	RMETR	Markov transition probability in rainfall generator option, month MO:
				<pre>V = 1: case of wet day following wet day V = 2: case of wet day following dry day</pre>
PS1CO2(NL)	)		PARAM	Controls amount of CO, loss when structural C
PS1S3			PARAM	decomposes to SOM1, in residue layer NL Controls flow from soil organic matter with fast
PS3S1			PARAM	turnover to SOM with slow turnover Controls flow from soil organic matter with slow
P1CO2A			PARAM	turnover to SOM with fast turnover Intercept parameter that controls flow from soil organic matter with fast turnover to CO <sub>2</sub> (fraction
P1CO2B			PARAM	of carbon lost to CO2 when no sand is in the soil) Slope parameter that controls flow from soil
PS2S1			PARAM	organic matter with fast turnover to $CO_2$ Controls flow from soil organic matter with
PS2S3			PARAM	intermediate turnover to SOM with fast turnover Controls flow from soil organic matter with
PS2CO2			PARAM	intermediate turnover to SOM with slow turnover Controls flow from soil organic matter with
PS3CO2			PARAM	intermediate turnover to $CO_2$ Controls flow from soil organic matter with slow
D.C. N. 100				turnover rate to CO,
PSAND (HL)	Ís	C02	SOIL	Proportion of sand-sized particles in soil horizon HL

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NAME	VOL I.	INPUT (Line ID)	COMMON BLOCK	DEFINITION
PSCO21			PARAM	Fraction of lignin flow (in structural
				decomposition) lost as CO2
PSECMN(E) PSECOC			PARAM PARAM	Controls flow from secondary to mineral N and P Controls flow from secondary to occluded P
PSECOC PSECPT(E)			PAICAPI	Controls flow from secondary to parent material for N and P
PSEV			STATE	Interval evaporation from plant-intercepted water
PSILT (HL)		C02	SOIL	Proportion of silt-sized particles in soil horizon HL
PSOLUB(P)		E05	PESTI	Solubility of pesticide P [g/T or ppm]
PSP (NL)			NUTRIN	Phosphorus sorption coefficient in nutrient layer NL
PSRO(P)	$C_{ro}$		IO	Amount of pesticide P in storm runoff
PSSO(P) PTCV	F.		IO	Amount of pesticide P in the root zone soil Percent of soil area covered or protected by
PICV	Гз			combination of plant and surface residue
PWT(L,J)			нор2	Relative transportability of particle-class size J, in flow element L
QIRR		E17	MGMT	Rate of irrigation supply to total field $[ft^3/s \text{ or } m^3/s]$
QIR			LOCAL	For border or furrow irrigation, upstream flow rate [m³/min per m width]
QNLM			DRAT	Parameter in computation of draintile discharge
QPC	$d^b$	D16	FLOWS	Peak outflow from channel or catchment [mm/min]
QPEST(Y, I	۲)	E16	MGMT	Amount of pesticide in application IP of year Y [kg/ha or lb/ac]
QPP	$q_p$		FLOWS	Peak runoff from distributed flow element [mm/min]
QRO	Q		FLOWS	Storm or daily runoff [mm]
R(D)		I	ACTDAT	Measured daily rainfall from record, hydrology option 1 [mm]
RA (MO)		Н12		Average daily solar radiation for month MO [langley]
RAD(D)	$R_i$		RMETR	Measured or simulated mean solar radiation for day D [langley]
RAMX			RMETR	Maximum theoretical solar radiation for current day
RATE (Y, IF	)	E14	MGMT	Application rate of manure in IF <sup>th</sup> application of year Y [kg/ha or lb/ac if solid; mm or in if
				liquid]
RC(CL)	$K_s$	C02	SOIL	Soil-layer hydraulic conductivity of computational layer CL [mm/hr or in/hr]
RCB (CL)	•		SOIL	Hydraulic conductivity between layer CL and CL-1 [mm/min]
RCESTR(E)			PARAM	C/N and C/P ratios for structural material
RCES1(E)			PARAM	C/N and C/P ratios in soil organic matter with
RCES2(E)			PARAM	<pre>fast turnover C/N and C/P ratios in soil organic matter with intermediate turnover</pre>
RCES3(E)			PARAM	C/N and C/P ratios in soil organic matter with slow turnover
RCLM		E18		Mean flux limit of lower bound at DDIMP in
RCR(L,N)	R		AHOP	draintile option [mm/hr or in/hr] Hydraulic radius for furrow or channel
MOR(H, H)	4.		111101	overtopping, elements L, point N [m] (IHOP=2)

NAME	VOL I. NAME	INPUT (Line ID)	COMMON BLOCK	DEFINITION
RD RDM RDP (C) RDPM REFF	R <sub>i</sub> pm/ppm	D02	RMETR CROP	Generated daily value of solar radiation [langley] Relative dry matter production Maximum root depth attained by plant C [mm or in] Maximum root depth of all crops in rotation Effective rain (precipitation less interception)
REG(C)	τ		STATE	<pre>in option 1 Relative daily plant growth determined by all stress sources, of crop C</pre>
RELP(P)		E05	PESTI	Relative rate factor of pesticide P for kinetic adsorption model
RESD RESIDC RESIDE(E) RESLIG RF RFSURF RFT(T)	m <sub>r</sub> P f <sub>f</sub> f <sub>f</sub>	E03	TONCYC TONCYC TONCYC FLOWS STATE MGMT	Total soil organic residue Residue carbon added to nutrient layer NL Organic element E added to nutrient layer NL Residue lignin added to nutrient layer NL Total storm rainfall [mm] Current value of relative soil-surface roughness Relative soil-surface roughness resulting from
RFY	Р		KEEP	tillage operation T Yesterday's rainfall [mm]
RGSURF RHOP(J) RHOS RI(MO)	$egin{array}{l} f_f \  ho_s \  ho_s \end{array}$	B02 G03 H09	SED CSTATE	Initial relative soil-surface roughness [mm] Specific gravity of particle-size class J Overall soil specific weight [kg/L] Relative peak 30-minute rain intensity (from
RIN				record) for month M Effective rainwater reaching soil surface, considering snowmelt or snow accumulation
RLIG RLOSS		D02 F11	CROP PONDC	Plant root lignin content Rate of loss through bottom of pond, if different from RC(1) [mm/hr or in/hr]
RMD RMW RMN (L)	R <sub>i</sub> R <sub>i</sub> n	НО4 НО4	STATS STATS AHOP	Annual mean daily net radiation on dry days [ly] Annual mean daily net radiation on wet days [ly] Manning's n roughness coefficient for element L; either calculated from watershed characteristics or read from parameter file (see PMN) initially. Varies with tillage.
RMNF(K,L)	n F	F04,F10	AHOP	Manning's n for fixed management strip (if any) within flow element L of condition K
RMU	n		FLOWS	Current value of Manning's n on flow element 1 (field surface)
RNC ROCON(P) ROOT(C) ROPST(P) ROWF	C <sub>pro</sub>	D02	NUTRIN IO STATE PESTI HOP2	Nitrogen-carbon ratio, overall for plants Concentration of pesticide P in runoff Current value of root depth, crop C [mm] Pesticide P dissolved in runoff water [g/ha] Inverse of row spacing [m <sup>-1</sup> ]
ROWSP RSDU(NL) RSR	P	В02	NUTRIN	Row spacing [m or ft] Residue in layer NL Rainfall in next storm from multiple storm
RSW(C)			STATE	breakpoint record  Total soil water in current root zone of crop C [mm]
RTO(L)			SED	Ratio of soil grain roughness to total hydraulic roughness in flow element L
RWCF RWDT RYD	R <sub>1</sub>		PLOTS AHOP	Net relative water content in root zone Width from center to center of furrows [m] Total solar radiation yesterday [langley]

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NAME	VOL I NAME	. INPUT (Line ID)	COMMON BLOCK	DEFINITION
S1MNR(E)			PLOTS	Net mineralization due to decomposition of SOM1
S2MNR(E)			PLOTS	(soil organic matter with fast turnover rate) Net mineralization due to decomposition of SOM2 (soil organic matter with intermediate turnover rate)
S3MNR(E)			PLOTS	Net mineralization due to decomposition of SOM3 (soil organic matter with slow turnover rate)
SCLAY			HOP1	Sum of clay particle portions in sediment particles
SCLOSA			PLOTS	Accumulated carbon lost from soil organic matter
			PLOTS	Carbon lost from soil organic matter each month
SCLOSS				
SDD(C)			STATE	Accumulated °C-days since planting for crop C
SDMPST(P)			PESTI	Mass of pesticide P associated with runoff sediment [g/ha]
SECNDY (E)			PLOTS	Secondary N and P
SEDMC	$Q_s$		FLOWS	Storm outflow of sediment from channel [tons/ha]
SEDMP	Qs		FLOWS	Storm outflow of sediment from field [tons/ha]
SEDMPR	-3		IO	SEDMP in terms of output units
SEEP			STATE	Interval outflow of water to below lowest root
0222			0	depth [mm]
SEED		H04		Random number generating seed value
SFAC		1104	STATS	Conversion factor to produce desired output units
			SOIL	
SH(CL)			2011	Difference measured along potential axis between sorption and absorption characteristic curves for soil layer CL [mm]
SL(K,L,N)	$S_o(x)$		AHOP	Local slope of flow path for element L, flow state K, at position N
SLA(K,L)	S <sub>o</sub>	F01,F07	AHOP	Overall slope of element L, for flow state K [m/m or ft/ft]
SLKF(K)	$K_u$		HOP1	Effective overall USLE K for flow path K
SLKP	$K_u^{u}L_uP_u$		HOP1	Combination of USLE slope-length factor, erodibility K, and P factor
SLRF(K,L)	φ	F04,F10	AHOP	Local soil-loss ratio for fixed or unmanaged part of field
SMEI			STATE	Accumulated storm EI since last tillage [mJ-mm/ha-hr]
SMX			HOP1	Conversion coefficient to obtain weighted S value for CN method
SNO	$W_s$		STATE	Water equivalent of surface accumulation of snow [mm]
SNREG(C)	$\tau_{\scriptscriptstyle N}$		NUTRIN	Relative nitrogen growth-limiting stress coefficient of crop C. Varies from O(fully stressed) to 1(no stress).
SOILIM	•		STATE	Maximum soil-water storage above an infiltration- limiting layer [mm]
SOLCLY			SED	Relative content of clay-sized particles in surface soil
SOLORG			SED	Relative content of organic matter in surface soil
SOLSLT			SED	Relative content of silt-sized particles in surface soil
SOLSND			SED	Relative content of sand-sized particles in surface soil
SOM1C			PLOTS	Carbon in soil organic matter with fast turnover rate

NAME	VOL I.	INPUT (Line ID)	COMMON BLOCK	DEFINITION
SOM1E(E)			PLOTS	N and P in soil organic matter with fast turnover
SOM2C			PLOTS	Carbon in soil organic matter with intermediate
SOM2E(E)			PLOTS	N and P in soil organic matter with intermediate
SOM3C			PLOTS	Carbon in soil organic matter with slow turnover
SOM3E(E)			PLOTS	N and P in soil organic matter with slow turnover
SOMSC			PLOTS	Sum of SOM1, SOM2, and SOM3 carbon (labeled and
SOMTC			PLOTS	unlabeled) Total soil-organic-matter carbon including
SOMTE(E)			PLOTS	structural and metabolic Total soil-organic-matter N or P including
SP(S)	I	F03,F09		structural and metabolic Specified slopes to define field profile slope at XSP(S) [m/m or ft/ft]
SPH(HL) SPL1		C03	NUTRI PARAM	Soil pH in horizon layer HL Intercept parameter for metabolic (vs. structural)
SPIN SRESD SRSDU(HL)	X <sub>m</sub>	B02 C03	STATE	Input to soil from snowmelt [mm]  Amount of surface residue [kg/ha or lb/ac]  Initial incorporated plant residue in soil horizon
SSCLY		G03	SED	Specific surface of primary clay particles in surface soil [m <sup>-1</sup> or ft <sup>-1</sup> ]
SSED			FLOWS	Specific surface of inorganic particles in sediment
SSILT SSMIN			SED	Sum of silt-particle portions in surface soil Specific surface of surface soil exclusive of organic material
SSORG		G03	SED	Specific surface of suspended organic material [m <sup>2</sup> /m <sup>3</sup> or ft <sup>2</sup> /ft <sup>3</sup> ]
SSSLT		G03	SED	Specific surface of primary silt particles in surface soil $[m^2/m^3 \text{ or } ft^2/ft^3]$
SSSND		G03	SED	Specific surface of sand particles in surface soil [m²/m³ or ft²/ft³]
STDN STDP STDRY		B02	NUTRIN NUTRIN STATE	Nitrogen content of standing dry plants [kg/ha] Phosphorus content of standing dry plants [kg/ha] Standing dry matter from dead plants [kg/ha]
STEMP STOLC			PLOTS STATE	Average soil temperature [°C]  Precipitation-storage capacity of vegetation at
STOLE STOLM			STATE	Amount of precipitation stored on vegetation [mm]  Maximum precipitation storage of plants at full
STOLR			STATE	Depth of water (intercepted) on plants and
STRMNR (NL,	E)		PLOTS	Amount mineralized due to decomposition of structural (since immobilization is required to decompose structural, these values will be
STRUCC (NL) STRUCE (NL,	Ε)		PLOTS PLOTS	negative) Structural carbon Structural N or P

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NAME	VOL I.	INPUT (Line ID)	COMMON	DEFINITION
SU(N)			SED	Slope at location N on plane or channel
SUMER			STATE	Accumulated field erosion since previous tillage
SUMNRS (E)			PLOTS	Annual accumulator for net mineralization from all
				compartments except structural
SUMPAIR (P	)		PESTAB	Accumulated amount of pesticide P lost in harvest
•				or into ambient air [kg/ha]
SUMPDK (P)			PESTAB	Accumulated amount of pesticide P lost to
0 0111 211 (1 )				environmental decay [kg/ha]
SUMPIN(P)			PESTAB	Accumulated amount of pesticide P applied to field
DOTE IN (I )			1 20 1112	[kg/ha]
SUMPRO (P)			PESTAB	Accumulated amount of pesticide P washed off in
SUMPRO (F)			FESTAD	runoff [kg/ha]
0111170000 (0			DECEMBE	
SUMPSEP (P	)		PESTAB	Accumulated amount of pesticide P leached below
			0.00	root zone [kg/ha]
SUPL(L,J,	N)		SED	Sediment supply rate at previous time step on
				element L, for particle-size class J, at node N
SW			STATE	Total soil water in root profile [mm]
SWIN			STATS	Soil water in profile at start of simulation [mm
				or in]
SWLD (MO)			STATS	Mean water content of root zone at end of month MO
				[mm/mm]
T(I)			HOP2	Time corresponding to breakpoint time-depth pair I
				of storm [min]
TA (MO)			RMETR	Mean monthly temperature [°C]
TAET	$E_{t}$			Total interval plant transpiration
TAMN (MO)	-t	H11		Average daily minimum temperature for month MO [°C
11111 (110)		** = =		or °Fl
TAMX (MO)		Н10		Average daily maximum temperature for month MO [°C
111111 (110)		****		or °F1
TAREA (K, L	. \		LOCAL	Total area [m <sup>2</sup> ] contributing to downstream end of
TAKUA (K, L	,		ПОСИП	element L in flow state K
matic (T)	₹		SED	Current critical shear for erosion in flow element
TAUC(L)	$ au_{ extsf{c}}$		SED	
marrom /***	T \	710		L [m²/min]
TAUCF (KL,	上)	F10		Critical shear for hydraulic erosion in channel
				fixed section
TBP(I)			HOP2	Breakpoint depths for I data pairs of first record
				(option 4) of next storm, used to decide if runoff
				carries over into next storm
TC	$T_c$			Mean generated daily temperature [°C]
TCERAT (E)			PLOTS	C/N or C/P ratio in soil organic matter
TCFMN (MO)			RMETR	Correction coefficient to make generated values of
				daily minimum temperatures consistent with
				optional input values of recorded local mean
				minimum temperatures for month MO [°C]
TCFMX (MO)			RMETR	Correction factor corresponding to TCFMN but for
				daily mean maximums during month MO
TCMAX (D)			RMETR	Mean daily maximum temperature calculated from
1011111 (D)			*4*******	monthly input data [°C]
TCMIN(D)			DMPMD	
TCMIN (D)			RMETR	Mean daily minimum temperature calculated from
monan.		702	DMBES	monthly input data [°C]
TCMN		J03	RMETR	Generated or measured daily minimum temperature
		-00		[°C]
TCMX		J03	RMETR	Generated or measured daily maximum temperature
				[°C]

NAME	VOL I. NAME	INPUT (Line ID)	COMMON BLOCK	DEFINITION
TCON			HOP1	Partial time of concentration from channel flow
m.c.c	m		0.000	segment
TCS TCU	Т		STATE LOCAL	Estimated driving temperature at soil surface [°C] Limiting time allowed in surface routing based on
100			LOCAL	current velocities at all points on surface
TDLTA			SEDCH	Total of DLTA(J) for all J
TDRY			PESTI	<pre>Interval between surface additions of water to soil profile [days]</pre>
TDSN (MO)			STRESS	Number of stress-days due to limited nitrate in month MO
TDSW (MO)			STRESS	Number of stress-days for current crop due to
				limited water in root zone during month MO
TE				Time of ending of storm [min]
TELAP			O M N M O	Duration of storm [min]
TEVAP (MO)			STATS	Total evaporation from soil surface for month MO [mm]
TGBM(C)	$T_{b}$	D03	CROP	Minimum growth temperature for plant C [°C or °F]
TGOP (C)	$T_{op}$	D03	CROP	Optimum growth temperature for plant C [°C or °F]
TH(CL)	θ		STATE	Soil-layer water content by volume $(\theta)$ [cm <sup>3</sup> /cm <sup>3</sup> ]
THE (CL)	Θ		STATE	Normalized water content (fraction of available)
THEC	$\theta_{c}$		ВОТН	in layer CL, defined as $\theta_e = (\theta - \theta_r) / (\theta_s - \theta_r)$
THEC	o <sub>c</sub>		BOIN	Critical normalized water content, below which water uptake by plants is curtailed
THEM (CL)			SOIL	Maximum normalized soil-water content by layer
THEMTH		E01	MGTH	Normalized soil-water content (THE) above which
				management is delayed until next day
THER (C)			STATE	Overall normalized soil-water content in current
THIRR		E17	MGMT	root zone of plant C Critical normalized soil-water content for
111111		шт,	110111	starting irrigation by demand method [mm/mm or
				in/in]
THR (CL)	$\theta_r$		SOIL	Residual layer soil-water content inactive
#UDECH		200	T-0	capillary water
THRESH		A02	IO	Storm summary output file threshold for stormwise
				output from infiltration model (IHOP=2): depth of rainfall below which output is NOT wanted. For
				example, in English units, 0.01 would probably
				produce output from all storms, while 2.0 or 3.0
				would yield only large storms.
THRZ			HOP2	Residual water content in surface infiltration
THS (CL)	$\theta_s$	C02	SOIL	zone Layer soil-water content at saturation
THST	$\dot{\theta}_{i}^{s}$	B02	DOIL	Starting water content of soil profile [mm/mm or
	_			in/in]
THSZ	$\theta_s$		HOP2	Soil-water content of infiltration control zone at
THW(CL)	$\theta_{15}$		COTT	0 head
TIIW (CD)	U <sub>15</sub>		SOIL	Wilting-point water content (15-bar tension) of soil layer
TIM	$\Delta t_{m}$			Time interval [min] for snowmelt calculation
TIME			PLOTS	Time [yr]
TIRR		E17	MGMT	Total amount of annual irrigation-ditch water
TITLE (v, 2	٥١	λ () 1	CMAMC	supply [mm or in]
111DE (V, Z	· )	A01	STATS	Hollerith title from parameter file; v is index for card number(1 to 3), 20 indicates twenty
				4-character words per card

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NAME	VOL I. NAME	INPUT (Line ID)	COMMON BLOCK	DEFINITION
TLAI TMAX TMINRL (E)	${ t F}_{ t LT}$		PARAM PLOTS	Total combined present leaf-area index Maximum temperature for decomposition Total mineral nutrient content 1 = ammonium 2 = labile phosphorus
TMSNO (MO) TN		н03	STATS RMETR	Total monthly amount of snowmelt [mm or in] Annual mean value of daily minimum temperatures at given location [°F or °C]
TN2 TNETMN (E)			NUTRIN PLOTS	Total volatile $N_2$ lost from soil Annual accumulator for net mineralization from all compartments
TNO3 TODR (MO)			STATS	Total soil profile nitrate-N content Total amount of water drained through draintiles, month MO [mm]
TOPERC (MC TOPT TORGN	))		STATS PARAM	Total monthly amount of seepage to below root zone Optimum temperature for decomposition [°C] Total amount of organic nitrogen in root soil
TOTALC			PLOTS	profile Total carbon in system (including sources and sinks)
TOTALE (E)			PLOTS	Total N or P in system (including sources and sinks)
TOTEP TOTET (MO) TOTNLCH (M			STATS STATS STATS	Annual total actual evapotranspiration Monthly total actual evapotranspiration Monthly total nitrate-N leached below roots [kg/ha or lb/ac]
TOTNRO (MO TOTP (HL)	))	C03	STATS	Monthly total nitrogen in runoff [kg/ha or lb/ac] Total P content in soil horizon HL [kg/ha or lb/ac]
TOTPEP TOTQ (MO) TOTR (MO) TOTSD (MO) TPSDK (P, M			STATS STATS STATS STATS PESTAB	Annual total potential ET [mm or in] Monthly total runoff [mm or in] Monthly total rainfall [mm or in] Monthly total sediment production [t/ha or tn/ac] Total pesticide P decayed by end of month MO,
TPSEP (P, M			PESTAB	[g/ha] Total pesticide P lost to seepage by end of month
TPSIN(P,M	10)		PESTAB	MO [g/ha] Total pesticide P applied to field by end of month MO [g/ha]
TPSLA(P,M	(0)		PESTAB	Total pesticide P lost in air and harvest by end of month MO [g/ha]
TPSRO(P,M	(0)		PESTAB	Total pesticide P washed off in surface runoff by end of month MO [g/ha]
TPSRS (P, M	(0)		PESTAB	Total pesticide P remaining in plant, soil, and residue at end of month MO [g/ha]
TP05		н13	HOP1	30-minute rain depth with 10-year return period [mm or in]
TP6		Н13	HOP1	6-hour rain depth with 10-year return period [mm or in]
TS TSC			HOP1	Time of start of storm [min], from midnight Constant portion of flow concentration time formula used with variable RMN and TCON
TSHL			PARAM	Shape parameter to left of optimum temperature (for decomposition)
TSHR			PARAM	Shape parameter to right of optimum temperature

NAME	VOL I. NAME	INPUT (Line ID)	COMMON BLOCK	DEFINITION
TSL (CL) TSNO TSR	Т		SOIL STATE	Soil layer temperature [°C] Age of snowpack [days] Time of start of next storm for multiple-storm
TSTEP TT(I)			CSTATE HOP2	record Time step of transport computations [min] Breakpoint times for first record of next storm (see TBP(I)) [in minutes since midnight of start
TTRANS (MC	))		STATS	<pre>day] Total transpired water from plants for month MO</pre>
TW (N) TWDN			SED NUTRIN	<pre>[mm] Top width of water surface at section N [m] Total annual denitrification in soil profile</pre>
TWIM			NUTRIN	<pre>[kg/ha] Total annual immobilization in soil profile [kg/ha]</pre>
TWMN			NUTRIN	Total annual mineralization in soil profile [kg/ha]
TXMD TXMW		H02 H02	RMETR	Annual mean value of daily maximum temperatures on dry days [°F or °C]
TYAV		HU2	RMETR	Annual mean value of daily maximum temperatures on wet days [°F or °C] Annual average air temperature [°C]
TYD U(N)	u		SED	Maximum air temperature yesterday [°C] Velocity of surface water at node N [m/min]
UFAC UL(N)	u		STATS	Conversion factor to prepare output for selected units
URMX	ŭ		LOCAL	Velocity of surface water at last time step at node N [m/min] Maximum value of difference in flux between
US			DOMU	computational nodes in surface routing calculations. Used in determining time-step size.
USK(J)	$K_u$	F06	BOTH	Maximum amount of stage-1 soil evaporation [mm] USLE K for zone from XKS(J-1) to XKS(J) [t-hr/MJ-mm]
USLK(K,N)	K <sub>u</sub>		AHOP	USLE soil K parameter (appropriate English or metric dimensions) on field surface for flow state K at node N
VARAT1(V,	E)		PARAM	Variable ratio data for SOM1. E is element and represents N or P:  V=1: maximum C/E ratio for material entering
				SOM1 V=2: minimum C/E ratio for material entering SOM1
VARAT2(V,	E)		PARAM	V=3: amount of mineral element present when minimum ratio applies Variable ratio data for SOM2:
				V=1: maximum C/E ratio for material entering SOM2
				<pre>V=2: minimum C/E ratio for material entering</pre>
VARAT3(V,	E)		PARAM	minimum ratio applies  Variable ratio data for SOM3  V=1: maximum C/E ratio for material entering  SOM3

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NAME VOL I. INPUT COMMON DEFINITION NAME (Line ID) BLOCK

				V=2: minimum C/E ratio for material entering SOM3
				<pre>V=3: amount of mineral element present when   minimum ratio applies</pre>
VIN			CSTATE	Volume of inflow water [mm] (+ or -)
VIP			CSTATE	Volume of outflow water [mm] (+ or -)
VLOSSG			PARAM	Fraction of gross mineralization that is volatilized
VOLEX			PLOTS	N that was volatilized as a function of nitrogen remaining after uptake by plants
VOLEXA			PLOTS	Accumulator for VOLEX
VOLGM			PLOTS	N that was volatilized as a function of gross mineralization
VOLGMA			PLOTS	Accumulator for VOLGM
VNU	υ		CONS	Kinematic water viscosity [m²/s]
VQDR			DRAT	Water flowing out draintiles during computation
VS (J)	V <sub>s</sub>		SED	Settling velocity of particles in size class J [m/s]
W(L,N)	W		AHOP	Width of flow element L at node N [m]
WATI			CSTATE	Initial water storage in layer [mm]
WATN			CSTATE	Final water storage in layer [mm]
WB(L,N)			AHOP	Width of bottom of flow section or furrow [m]
WDFXA WF(CL)			PLOTS HOP1	Accumulator for atmospheric nitrogen fixation Weighting function for effect of soil-layer water
WE (CL)			HOFT	content on effective curve number
WFRW(T)		E03	MGMT	Width of furrows resulting from cultivation T [m or ft]
WFT(C)			STATE	Dry weight of fruit and/or seed of plant C at current stage [kg/ha]
WI(MO)			HOP1	Weighting value for relative historical rainfall intensities for month MO
WINIT		F07		<pre>Initial width of channel bottom at outlet:    0 = triangular section</pre>
				<pre>&lt;0 = a "naturally eroded" rectangular section,     width =  WINIT  [m or ft]</pre>
WL(CL)			SOIL	Weight of soil in soil layer CL [kg/ha]
WLCH			STATE	<pre>Interval amount of nitrate-N leached below roots [kg/ha]</pre>
WLO(HL)			NUTRIN	Fraction of nutrient material in soil horizon HL that is considered part of active microbial zone
MTA(C)	$pm_{lv}$		STATE	Current mass of leaves and stems of plant C [kg/ha]
WNH4(CL)			NUTRIN	Ammonium-N content of soil layer CL [kg/ha]
WNHLR			IO	Total NH <sub>4</sub> nitrogen in runoff [kg/ha]
WNC3(HL)		C03	NUTRIN NUTRIN	Weight of soil in nutrient layer NL [kg/ha] Amount of nitrate-N in horizon layer HL [g/t or
WNORG (CP,	NL)		NUTRIN	<pre>ppm] Mass of organic nitrogen in pool CP, nutrient layer NL [kg/ha]</pre>
WNOUT			IO	NO <sub>3</sub> nitrogen in runoff [kg/ha]
WOOD (C)	003		STATE	Dry mass of wood in perennial woody plant C [not now used]
WPLAB (HL)	CU3		NUTRIN	Amount of labile phosphorus in horizon layer HL [g/t or ppm]
WPLRO			IO	Labile phosphorus in runoff, total

NAME	VOL I.	INPUT (Line ID)	COMMON BLOCK	DEFINITION
WRT (C)	$pm_r$		STATE	Dry weight of root mass of plant or crop C at
WSF(J)			SED	<pre>current time [kg/ha] Estimated relative erodibility weighting of particle-size class J</pre>
WTDH20			CONS	Weight of water [N/m³]
WTF(N)			AHOP	Width at top of furrow at location N [m]
WTP	W		111101	Width of field element at top [m]
XD(K, L, N)			AHOP	Distance from upstream point to location N, flow state KL, element L [m]
XDI				Distance up from bottom of field element [m]
XKS (J)		F06		Distance along XLP to lower end of zone having soil with USLE K of USK(J) [m or ft]
XLC	$\mathbf{L}_{c}$	F07		Length of channel element for topographic state [m or ft]
XLFS		F04,F10		Distance from upstream end to start of area having fixed (unmanaged) condition [m or ft]
XLFE		F04,F10		Distance from upstream end to end of area having fixed (unmanaged) condition [m or ft]
XLP	$\mathbf{L}_{\mathrm{p}}$	F01		Length of field element for topographic state [m or ft]
XSP(S)		F03,F09		Locations on field element where slope S is specified [m or ft]
YALCON			CONS	Constant in Yalin relation for sediment transport capacity
YLC			RMETR	Cosine of location latitude
YLS			RMETR	Sine of location latitude
YMX(L,N)			AHOP	Storm maximum of flow depth reached in element L, location N [m]
YPEV				PEV on previous day
ZC(K, L)			AHOP	Side slope of channel element L, (H:V), topographic state K
ZCA(K, L)		F07		Normal channel sideslope for topographic state K and channel element L
ZSF		В02		Initial row sideslope, H:V
ZQ	h <sub>z</sub>	F11	PONDC	Depth of water in impoundment below which no outflow occurs [m]

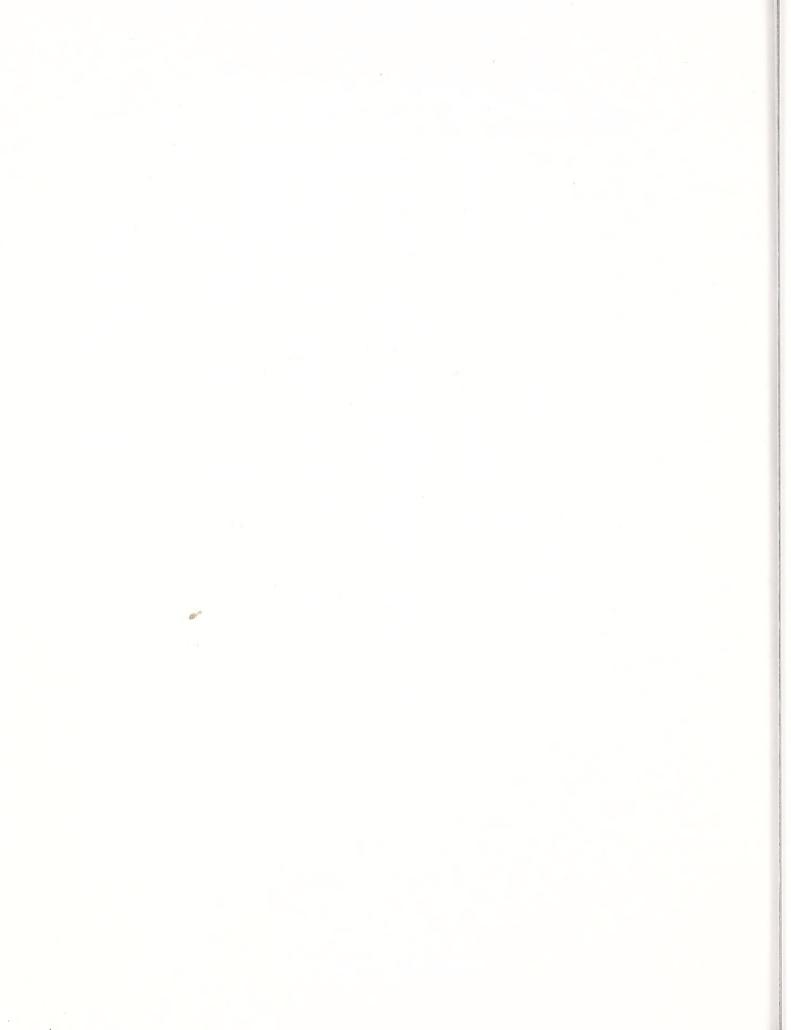
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Appendix F. Information on Opus Subprograms

Routine	File	Called By	Called When	Description of Process
ADVWL	HYDRL	RFXS	Each $\Delta t$ during storm, for IHOP=2	Traces advance of wetting front through various soil layers during a rainfall infiltration event.
ANSTAT	STAT	GRIND	Yearly	Prints annual summary output table.
BETAG	DAILY	RANBET	When stochastic CN option chosen, daily	Generates a value having a beta probability distribution given a mean and variance, and a uniformly distributed random variable.
BLKDAT	PRELM	[BLOCK DATA]	Initially	Initializes some data in labeled common blocks.
BRAKS	PRELM	SETLAY	Initially, for each soil horizon	Sets default values for soil characteristic parameters based on regression relations developed by Rawls and Brakensiek, which use soil texture and porosity as independent variables.
BRATHS	PRELM	SETLAY	Initially, for each soil horizon	Sets default value, if required, for saturated water content based on Rawls and Brakensiek's regression on porosity and texture.
CAPACY	SED	SEDCOM	Breakpoint option, during storm, each $\Delta t$ , each $\Delta t$	Computes sediment-transport capacity along each node point of surface flow.
CELF	PRELM	GETMET	Initially, if INUN=2	Converts °F to °C.
CFACT	MAIN	GRIND	Daily	Calculates Laflen/Foster USLE C factor daily.
CHECK	READ	MAIN READA/B CROPIN MGRIN FKSL GETMET	For each line in data file	Checks input parameter and meteorological data records for correct sequencing: reads id code from each record and tests against expected record code.
CHEMFL	CHEM	SOILMV	Daily or interstorm	Determines sources, sinks, and layerwise hierarchy for computation of chemical concentration changes due to water fluxes.
CHEMTAB	STAT	GRIND	Monthly	Fills reporting arrays for end of year report on fate of each pesticide.

Routine	File	Called By	Called When	Description of Process
CHMTRF	CHEM	CHEMFL	Daily or interstorm, once for each soil component layer	Calculates chemical transfer between layers after daily water throughflow has been found for each computational layer.
CNRO	DAILY	GRIND	On each rain day for IHOP=1	Calculates daily runoff volume and peak from daily rainfall using modified SCS Curve Number technique.
READA/ READB	READA/ READB	OPUS2	Initially	Reads all input parameters and generates necessary computational arrays and initial state variables for simulation run.
CROPIN	IOAUX	READA	Initially	Reads input data describing all crops used in simulation.
CULTIV	NUTRS	SIMSOM	Daily, when any residue additions occur, for IFNUT>0	Mixes surface litter into topsoil layer when cultivation occurs.
CYCLE	NUTRS	SIMSOM	Daily for IFNUT>0	Determines decomposition factor related to temperature and water. Initializes mineralization variables.
DCFLUX	CHEM	CHMTRF SOILAD	Once for each layer, each solute, and each time step	Computes chemical transfer between adjacent soil elements for non-adsorbed solutes or equilibrium sorption solutes.
DECOMP	NUTRS	SIMSOM	Daily, for IFNUT>0	Calculates nutrient decomposition flows.
DETCUL	NUTRS	DECOMP	Daily, for IFNUT>0	Flags cultivation-event days.
DISTN	WTHR	TRGEN FGENR	Daily for IHOP=1 once each for T & R	Computes pseudorandom number values according to normal probability distribution.
DOV	POND	SPOND	During each $\Delta$ t during storm	Computes impoundment depth given a value of stored volume.
DSEFH	SOIL	SOILMV	As needed during each iteration	Calculates slope of hydraulic characteristic in reduced theta.
DTDF	MAIN	GRIND	Each interstorm period, for IHOP=1 or daily, for IHOP=2	Calculates effective evaporation interval.

Routine	File	Called By	Called When	Description of Process
ELFLOW	NUTRS	DECOMP	For each residue pool, daily	Decompose from "box a" to "box b," depending on C:N ratio.
ENRCMP	SERV	RFXS	End of each runoff event	Computes enrichment of fine particles in sediment at field outlet.
EQSAND	PRELM	READB	Initially	Computes equivalent sand diameter for all particle classes.
EROSN	NUTRS	SIMSOM	Daily, IFNUT>0	Removes residue material from system during nutrient model simulation.
EVAP	WTHR	GRIND	Daily	Assigns transpiration and soil evaporation from PET for all plants (up to four) for current day, given a value of potential total ET and plant state.
EXCH	SERV	PORDER	Once each call to PORDER	Companion to PORDER, used to reassign the particle-class characteristics when they are reordered by equivalent sand diameter.
FDEC	CHEM	FLASH SOILAD	Frequently, as needed (varies)	Decay function related to linear storage model of chemical concentration changes with flow through a soil element.
FEXR	CHEM	SHOVQ	As required by SHOVQ	Exponent of ratio of two numbers; prevents underflow.
FGENR	WTHR	WGENR	Daily	Generates daily radiation and maximum and minimum temperatures.
FHOSE	SOIL	SETLAY SOILMV SOILAD HAWOOD	Frequently, during soil water computations	Computes soil matric tension as a function of normalized water content: the function ${\rm H}(\theta_e)$ [see FSOH].
FINFL	HYDRL	RFXS	Each $\Delta$ t during runoff-producing storms, for IHOP=2	Calculates mean infiltration rate in time step as function of current infiltrated depth.
FKBAR	PRELM	SETLAY	Initially, for each computational soil layer	Computes mean effective internodal soil hydraulic diffusive conductivity.
FKDCL	PRELM	SETLAY	Initially, during read process	Estimates adsorption coefficient for inorganic molecules as a function of soil clay content.
FKSL	IOAUX	READA	Initially, during read process	Assigns local value of USLE K to each surface flow distance node point.

Routine	File	Called By	Called When	Description of Process
FLASH	CHEM	GRIND RGATE	Daily, when runoff occurs	Calculates amount of dissolved and adsorbed mineral nutrient material in runoff from soil, residue, and plant-surface washoff.
FLAYP	HYDR	RFXS	Breakpoint each $\Delta t$ during runoff computations, for IHOP=2	Calculates effective net soil hydraulic conductivity during infiltration into a crust-topped profile.
FLOCLR	NUTRS	PRELIM FLOWUP	Each day for IFNUT>0	Clears nutrient flow arrays.
FLOW	NUTRS	RESPIR DECOMP ELFLOW RESLOS	Daily for IFNUT>0	Stores a nutrient flow amount in the appropriate array.
FLOWUP	NUTRS	SIMSOM	Daily for IFNUT>0	Updates nutrient-state variables from the flow arrays.
FMANN	SERV	READA GRIND	On days when management changes to surface occur	Calculates net Manning's n from bare soil n value and surface condition.
FMLCH	SERV	READB FMANN UPDATE HAWOOD	Daily as required by each module	Calculates net soil mulch cover as a function of weight per unit area of surface residue.
FONE	CHEM	RKSORB RNGKTA	For each $\Delta t$ and each layer in profile	Solves difference equation for change in dissolved pesticide for kinetic adsorption case for a given state.
FROQ	SERV	SURF RFXS	Once each $\Delta t$ during runoff or furrow irrigation	Calculates value of hydraulic radius given section hydraulic properties and discharge.
FSHF	WTHR	TIMELT	Occasional; daily when snowmelt is fast enough to cause runoff	Reduces daily time to angular shifted scale in radians, for use in snowmelt calculations.
FSL	SERV	GRIND READA FKSL	Only when CN factors change, for IHOP=1	Calculates slope-length factor.

Routine	File	Called By	Called When	Description of Process
FSOH	SOIL	READA GLAY SETLAY SOILMV INTFG GLAY FLAYP	Frequently as needed	Computes normalized water content for a given soil as a function of matric potential: the function $\theta_e\left(\text{H}\right)$ [see FHOSE].
FSUNM	SERV	OPUS2 DTDF	Daily	Calculates solar day length for a given latitude and time of year.
FVT	SERV	SURF	Each $\Delta t$ , each $\Delta x$ , and iteration	Wave-advance-estimating function for explicit estimate of new water-surface depths during surface water routing.
FXNU	SERV	READB SUMST OPUS2 GRIND	Daily and at initialization	Calculates kinematic viscosity ( $m^2/sec$ ) as a function of water temperature (°C).
GAMA	DAILY	CNRO	Daily for IHOP=1	Finds gamma distributed pseudorandom number.
GAMMA	DAILY	BETAG	Daily for IHOP=1	Gamma function, used for getting BETA distribution function.
GETLIG	NUTRS	SIMSOM	Daily for IFNUT>0	Calculates fraction of structural residue that will be lignin.
GETMET	IOAUX	READB	Once during initialization	Reads meteorological data records: monthly means and standard deviations of temperature and radiation.
GLAY	HYDR	RFXS	For IHOP=2 during each rain rate step	Computes net effective estimated capillary drive for current conditions of rain rate and infiltrated depth under crusted-soil conditions.
GONE	OCHEM	RNGKTA	Frequently, for kinetic option only	Finds current value of rate of change of adsorbed pesticide for given layer, during kinetic transport option.
GRIND	MAIN	OPUS2	Once	Drives Opus simulation through daily cycle.
HAWOOD	CROP	GRIND	Daily	Performs all management operations and calculates all resulting physical changes.
HYFILE	STAT	RFXS DAILY	Each $\Delta t$ , but only for rainfalls that exceed set threshold	Produces optional detailed hydrologic output file.

Routine	File	Called By	Called When	Description of Process
IDAY	SERV	OPUS2 MGRIN JULDT	Daily, depending on IFJUL	Finds Gregorian day given month, day of month, and days/year.
INTFG	MAIN	OPUS2 GLAY	Once at start and when soil crust conditions change	Calculates integral soil infiltration capillarity parameter from soil hydraulic parameters.
JULCON	MAIN	OPUS2 READUP READBP	Each storm; for IHOP=2	Converts integer representing date as MMDD plus integer YY into Gregorian day GGG plus integer representing YYGGG.
JULDT	SERV	OPUS2 GRIND JULCON	Daily, depending on IFJUL	Converts integer representing MMDDYY into integer representing Gregorian day GGG and year YY as YYGGG.
LEAP	SERV	READA OPUS2 GRIND JULDT	Each year of simulation	Finds number of days per year.
LEAVES	CROP	HAWOOD UPDATE	Daily	Distributes daily value of plant photosynthetic production among leaf/stems, roots, and fruit.
METRCM	NUTRS	DECOMP	Daily for IFNUT>0	Scales down flow from metabolic if contents are exceeded.
MGRIN	IOAUX	READA	Once at beginning	Reads all management schedules and menus.
MONDAY	SERV	READA/B GETMET GRIND	365 times at start, plus once/day	Finds month, day, and year associated with a given Julian day and year.
NCYCL	NUTRS	GRIND	Daily	Computes carbon, nitrogen, and phosphorus cycle changes within residue and top 20-cm soil layers over a given time interval (usually 1 day).
NPINIT	NUTRS	PRELIM	Once at start	Initializes N or P in soil organic matter.
OPUS2	MAIN	OPUSG		Opus driver (main program).
PARTIT	NUTRS	PRELIM SIMSOM	At start and daily given IFNUT>0	Partitions residue into nutrient layer 1 of structural and metabolic.
PENMAN	WTHR	TRGEN GETMET	Daily	Computes modified Penman-Montieth potential evapotranspiration.

Routine	File	Called By	Called When	Description of Process
PERIM	SERV	SURF FROQ	Each $\Delta t$ , iteration, and $\Delta x$ for IHOP=2	Calculates hydraulic flow cross-section properties as a function of hydraulic radius, including top width, wetted perimeter, and rate of change of such properties.
PESTDK	CHEM	GRIND	Daily	Calculates daily pesticide decay in root zone.
PESTMV	CHEM	SOILAD	On days with rainfall	Calculates transition of pesticides on the plant and soil surface, including decay and washoff.
PORDER	PRELM	READB	Once at start	Reorders sediment-particle classes according to increasing equivalent sand diameters.
PLAY	HYDR	RFXS	Each $\Delta$ t during runoff for 1HOP=2	Finds ponding depth and modified G and K parameters for layered profile infiltration.
PRELIM	IOAUX	READB	Once at start for IFNUT>0	Initializes nutrient state variables and many parameters not set in BLOCK DATA.
PRTCMP	PRELM	READB	Once at start	Generates default sediment particle-size classes given sand/silt/clay contents.
QOD	POND	SPOND	Each $\Delta$ t for IFPOND>0 and IHOP=2 during runoff events	Calculates outflow discharge of an impoundment as a function of impoundment depth.
RANBET	DAILY	CNRO	Each runoff day for IHOP=1 and IFRNCN>0	Calculates beta-distributed pseudorandom numbers.
RANDN	WTHR	TRGEN CNRO SMUSLE GETMET GAMA RFGN FGENR	Daily plus once more if IHOP=1 and when no real runoff data used	Generates a uniformly distributed pseudorandom number between 0 and 1.
READBP	MAIN	GRIND	Once each storm for THOP=2	Reads breakpoint rainfall data.
READUP	MAIN	OPUS2 READBP	Once each storm for IHOP=2	Reads first five breakpoints of next storm to see if gap between storms is too small to treat the two storms as hydrologically separate.
READTM	READA	READA/B	Daily during data read, for each template heading	Reads past template headings in data input method.

Routine	File	Called By	Called When	Description of Process
RECROP	CROP	GRIND	At end of each year	Resets crop ID parameters at end of crop rotation year.
RESLOS	NUTRS	EROSN	For IFNUT>0, and only on runoff days	Computes residue lost to erosion.
RESPIR	NUTRS	DECOMP	Daily for IFNUT>0	Computes flows associated with microbial respiration.
RFGN	WTHR	TRGEN	For IFGEN>0, and only on rainfall days	Computes amount of gamma-distributed daily rain.
RFXS	HYDR	GRIND RGATE	For each rainfall event when IHOP=2, plus each irrigation	Performs hydrologic computations in space and through time during runoff, including erosion and sediment transport for all particle classes.
RGATE	CROP	HAWOOD	For each irrigation	Carries out sprinkler or furrow irrigation, including routing of flow across surface and addition of water and chemicals to unsaturated profile.
RICHET	WTHR	EVAP	Daily	Calculates daily plant and soil evaporation from daily PEV given ALAI and soil-evaporation history.
RILLGM	SERV	RFXS	At end of each runoff storm for IHOP=2	Computes estimated changes in flow section profile geometry, resulting from local amount of erosion or deposition.
RKSORB	CHEM	CHMTRF SOILAD	For each chemical, each layer, and each day and for each rainfall input pulse	Calculates transport of kinetically adsorbed solute through a finite difference layer given inflow, outflow, and initial conditions. Analogous to DCFLUX for equilibrium adsorbed solutes.
RNGKTA	CHEM	RKSORB	For each $\Delta$ t, from each RKSORB call (see above)	Solves pair of differential equations in $x$ , $y$ , $t$ over interval dt for changes in $x$ and $y$ , using Runge-Kutta method.
ROOTDK	CROP	UPDATE	Daily during crop senescence	Calculates root decay and adjusts appropriate nutrient mineral and organic pools.
RTHF	SOIL	SOILMV	Once each day or interstorm interval, and for each layer and $\Delta t$	Obtains mean diffusive relative hydraulic conductivity between two points in a soil, by calculating first moment of the power function of normalized water content.

Routine	File_	Called By	Called When	Description of Process
SAVARP	NUTRS	NCYCL PRELIM	Daily, for IFNUT>0	Saves variables for printing or plotting.
SEDCOM	SED	RFXS	For IHOP=2 during each Δt during storm runoff	Computes sediment erosion and transport over space and time.
SETLAY	PRELM	READA	Once at setup	Divides soil horizons into computational layers and nutrient cycle layers, and initializes all necessary parameter arrays.
SETPAR	NUTRS		Used only if IFNUT>0	BLOCK DATA to set nutrient parameter values.
SETSL	PRELM	READA	Once at setup for each hydraulic element	Interpolates between given data points to determine local values of profile slope at each computational node along surface flow path.
SHADE	SERV	READB RICHET UPDATE	Daily	Calculates relative total soil shade due to plants at any value of LAI.
SHIELD	SERV	CAPACY	Each $\Delta t$ for each particle size	Calculates critical shear value for given particle size.
SHOVQ	CHEM	DCFLUX	Frequently, for chemical transport calculations	Calculates equation for solution of differential equation for final outflow concentration of a linear "reservoir" subjected to inflow, outflow, and change of storage with arbitrary inflow concentration.
SIMSOM	NUTRS	NCYCL	Daily	Calculates flow of below-ground N and P.
SLFILE	STAT	GRIND	At each N day as set by user	Produces optional detailed soil-layer information.
SLOPE	SOIL	SOILMV	Each iteration during each $\Delta t$ and each $\Delta z$	Finds slope of water content-pressure curve.
SMUSLE	DAILY	CNRO	For IHOP=1 and for runoff events	Sediment yield estimated by James Williams' MUSLE.
SNOWF	WTHR	GRIND	Daily when temperature drops below 0 C	Calculates estimated snow accumulation and melt.

Routine	File	Called By	Called When	Description of Process
SOILAD	SOIL	GRIND RGATE	Daily (IHOP=1) or after each rain (IHOP=2)	Computes soil saturation profile from a given surface input, and transports dissolved substances into soil profile with input water.
SOILMV	SOIL	GRIND	Daily or between storms	Redistributes unsaturated soil water in soil profile between storms using Richards' equation solved by explicit SF method.
SOLTM	SOIL	GRIND	Daily	Computes daily soil temperatures at each layer using heat-diffusion equation.
SOLV	SOIL	SOILMV SURF SOLTM	Each $\Delta$ t and iteration for SOILMV and SURF; and each day for SOLTM	Does the matrix solution for tridiagonally dominant matrix equation.
SOMLOS	NUTRS	EROSN	Daily for IFNUT>0	Computes soil loss of SOM1, SOM2, SOM3 (nutrients).
SPIF	HYDR	PLAY	Each $\Delta$ t during storm, for IHOP=2	Finds infiltrated depth F as a function of G, r, and K in Smith-Parlange infiltration expression.
SPLASH	SED	SEDCOM	Each $\Delta$ t during storm for IHOP=2	Computes splash (interrill) erosion from a given rainfall rate and soil surface conditions.
SPOND	POND	RFXS	For IHOP=2 and each $\Delta t$ during storm	Routes hydrograph and sediment pattern through a given impoundment.
SUMCOL	NUTRS	FLOWUP	Daily for IFNUT>0	Calculates sum of elements of a given column in an NxN array.
SUMLAY	NUTRS	NCYCL	Daily for IFNUT>0	Sums nutrients in top 20 cm of computational layers.
SUMROW	NUTRS	FLOWUP	Daily for IFNUT>0	Calculates sum of elements of a given row in an NxN array.
SUMST	STAT	GRIND ANSTAT RGATE	Daily or interstorm or irrigation event	Keeps account of statistical data for output information summary.
SURF	HYDR	RFXS	Each $\Delta$ t during runoff for IHOP=2	Routes surface and channel flow from uniform or upstream input using kinematic wave or diffusive wave method, depending on Woolhiser parameter.

Routine	File	Called By	Called When	Description of Process
THERAD	WTHR	TRGEN GETMET	365 times during data read, and then daily	Computes daily potential incoming solar radiation latitude and time of day.
TIMELT	WTHR	GRIND	Only on days of estimated snowmelt	Based on assumed sinusoidal distribution of melt rate during daylight, divides melt interval into 10 parts and estimates a melt rate for each part based on total melt of snow on snowmelt days.
TINTF	WTHR	TIMELT	Only on estimated melt days	Integral along radian scale of shifted sine function.
TPFUNC	CHEM	PESTDK	Daily for each pesticide	Calculates temperature-effect parameter for pesticide-decay function.
TRGEN	WTHR	OPUS2 GRIND	Daily	Produces daily meteorological values from monthly summary data or from a statistical/probabilistic weather model.
UPDATE	CROP	READB GRIND	Daily	Computes daily growth changes in plants from meteorologic, soil condition, and plant parameters.
UPTAKE	CHEM	SOILMV	Daily during plant growth	Accounts for plant uptake of nutrients on daily or less frequent time step for all layers in which soil solution is found and into which roots have penetrated.
VOD	POND	SPOND	Whenever SPOND is called	Computes impoundment storage volume as a function of maximum depth.
VSETL	SERV	READA SUMST OPUS2	Once, plus daily whenever kine-matic viscosity changes	Computes particle-settling velocity as a function of effective diameter, specific gravity, and water kinematic viscosity.
WFUNC	SERV	MGRIN PESTDK	Once initially and then daily	Calculates value of water-effect parameter for pesticide-decay function.
WGENR	WTHR	TRGEN GETMET	365 times during initializing, then daily.	Generates daily temperatures and radiation.

Appendix G. COMMON Block-Subroutine-File Associations

## OPUS COMMON BLOCK - SUBROUTINE - FILE ASSOCIATIONS

	OWTHR OPOND OSERV OSTAT		RILLGM FROO PERIM					FMANN SUMST VSETL	
	ONUTRS	TRGEN			RICHET		CYCLE DECOMP ELFLOW NCYCL PARTIT RESPIR SAVARP SIMSOM		T.
10	ODAILY OCROP OCHEM		HSOM	Q		НАМООВ		C	HAWOOD FLASH UPDATE LEAVES
OPUS FILES	OHYDR OSED	CNRO	RFXS SPLASH SURF SEDCOM	BETAG	Q	N RFXS FLAYP		CAPACY	
	OPRELM OSOIL	BLKDAT			SOILAD	BRAKS SOILMV SETLAY FSOH FHOSE DSEFH SOILAD SLOPE			
	IOAUX		FKSL				PRELIM	BLKDAT EQSAND	CROPIN
	OREAD*	CREAD	CREAD		CREAD	CREAD		CREAD	CREAD
	OGRIND	GRIND READUP READBP	GRIND			GRIND		GRIND	GRIND
	OMAIN	OPUS2	OPUS2			OPUS2		OPUS2	
	COMMON	ACTDAT	АНОР	ARRAYS	ВОТН	Common Block	COMPUT	CONS	CROP

COMMON	OMAIN	OGRIND	OREAD*	IOAUX	OPRELM	OSOIL	OHYDR	OSED O	DAILY O	CROP C	XCHEM	ONUTRS	ODAILY OCROP OCHEM ONUTRS OWTHR OPOND OSERV OST	OSERV	OST
CROP									, X X	ROOTDK					
сворс		GRIND	CREAD	CROPIN					3 3 2 2 2	HAWOOD I UPDATE LEAVES ROOTDK RECROP	FLASH				
CSTATE						SOILAD DCFLUX				- 4. 4.	CHMTRF RKSORB FONE				
DRAT			CREAD			DRAINF								•,	SUMS
FLOVAL												FLOCLR FLOW FLOWUP			
FLOWS	OPUS2	GRIND	CREAD			SOILMV	RFXS CRUSK		CNRO HA	HAWOOD RGATE	FLASH PESTMV		SPOND		SUMS
НОР1		GRIND	CREAD	GETMET				ত জ	CNRO						
НОР2	OPUS2	GRIND READBP READUP	CREAD		SETLAY BLKDAT		RFXS GLAY PLAY	SEDCOM	ì	НАМООБ					
INFILC							RFXS GLAY PLAY ADVWL RESTH								

OPUS FILES (Continued)

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RV OSTAT	SUMST ANSTANST HYFILE SLFILE		SUMST	ANSTAT				INC SUMST HYFILE SLFILE		
OWTHR OPOND OSERV	SPOND FROQ							SPOND WFUNC		
ONUTRS			NCYCL					W >	SAVARP	CYCLE DECOMP NCYCL
ОСНЕМ	PESTMV CHMTRF FLASH		CHMTRF UPTAKE FLASH			FLASH		CHMTRF UPTAKE PESTMV PESTDK TPFUNC	UPTAKE FLASH	
OCROP	HAWOOD UPDATE RGATE		HAWOOD CHMTRF UPTAKE FLASH		RGATE	HAWOOD RGATE UPDATE RECROP	HAWOOD	HAWOOD RGATE UPDATE ROOTDK RECROP	HAWOOD UPDATE ROOTDK RECROP	
ODAILY								CNRO		
OSED	CAPACY CNRO									
OHYDR	RFXS				RFXS SURF			RFXS		
TIOSO	SOILAD		SOILAD					SOILMV		
OPRELM	SETLAY BRAKS BLKDAT		SETLAY BLKDAT			BLKDAT			SETLAY	
FOAUX	CROPIN MGRIN GETMET FKSL		PRELIM	GETMET				PRELIM	PRELIM	PRELIM
OREAD*	CREAD	CREAD	CREAD	CREAD	CREAD	CREAD	MGRIN	CREAD	CREAD	
OGRIND	GRIND READBP READUP	GRIND READBP	GRIND	GRIND READBP		GRIND		GRIND	GRIND	
OMAIN	OPUS2	OPUS2		OPUS2				OPUS2		
COMMON	00 %	KEEP	LABILE	LIMITS	LOCAL	MGMT	MGTH	NOPTS	NUTRIN	PARAM

Appendix G: Common Block 4

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OPUS

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COMMON	OMAIN	OGRIND	OREAD*	IOAUX	OPRELM	OSOIL	OHYDR OSED	ODAILY OCROP		OCHEM	ONUTRS	OCHEM ONUTRS OWTHR OPOND OSERV OSTAT	ERV OSTAT
PARAM											PARTIT		
PESTAB			CREAD			SOILAD		_	НАМООБ	CHMTRF PESTMV PESTDK	SETPAR		CHEMTAB ANSTAT
PESTI		GRIND	CREAD	MGRIN		SOILAD		1 2 4 4	HAWOOD UPDATE RGATE ROOTDK	CHMTRF PESTMV PESTDK			SUMST HYFILE SLFILE CHEMTAB
PLOTS				PRELIM							CULTIV CYCLE DECOMP EROSN METRCM NCYCL PARTIT SAVARP SIMSOM FLOWUP		
PONDC			CREAD									SPOND QOD DOV VOD	
RAINUP		READBP READUP											
яметя	OPUS2	GRIND	CREAD	<b>GETMET</b>								TRGEN THERAD RFGN WGENR FGENR	SUMST

Appendix G: Common Block 5

OPUS FILES (Continued)

OSTAT	SUMST			SUMST SLFILE CHEMTAB	SUMST ANSTAT SLFILE	SUMST	SUMST		
OWTHR OPOND OSERV	SPOND ENRCMP RILLGM				FMANN			ENRCMP	
OWTHR (			TIMELT	SNOWF	TRGEN EVAP RICHET SNOWF				
ONUTRS				NCYCL	SAVARP TRGEN EVAP RICHE' SNOWI			DECOMP PARTIT SIMSOM	
OCHEM O				CHMTRF UPTAKE FLASH PESTDK	CHEMFL CHMTRF UPTAKE FLASH PESTMV PESTDK	FLASH PESTDK		FLASH	RKSORB FONE GONE
OCROP O				HAWOOD UPDATE ROOTDK	HAWOOD RGATE UPDATE LEAVES ROOTDK RECROP	HAWOOD RGATE	UPDATE	HAWOOD UPDATE ROOTDK	
ODAILY	CNRO			CNRO	CNRO				
OSED	SEDCOM	SEDCOM			SEDCOM CNRO				
OHYDR	RFXS		RXFS	RFXS	SURF			RFXS	
OSOIL				SOLTM DRAINF SOILMV SOILAD SLOPE	SOILMV DRAINF SOILAD				
OPRELM	PRTCMP			SETLAY BRAKS	SETLAY	BLKDAT		SETLAY	
IOAUX				CROPIN	PRELIM			PRELIM	
OREAD*	CREAD			CREAD	CREAD	CREAD		CREAD	
OGRIND	GRIND	GRIND		GRIND	GRIND READBP READUP CFACT DTDF	GRIND			
OMAIN	OPUS2			OPUS2	OPUS2	OPUS2			
COMMON	SED	SEDCH	SNMLT	SOIL	STATE	STATS	STRESS	TONCYC	TRANSF
				Append	lix G: Common Block				

\*Note: OREAD is actually composed of two files, OREADA and OREADB.

